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LAUNDRY JOURNAL

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GUIDE TO THE LAUNDRY BUSINESS

September



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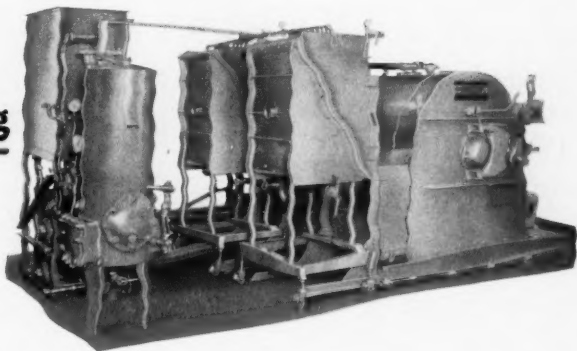
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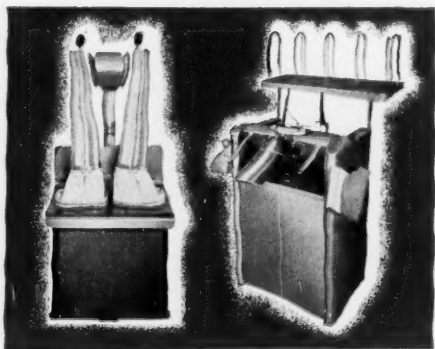


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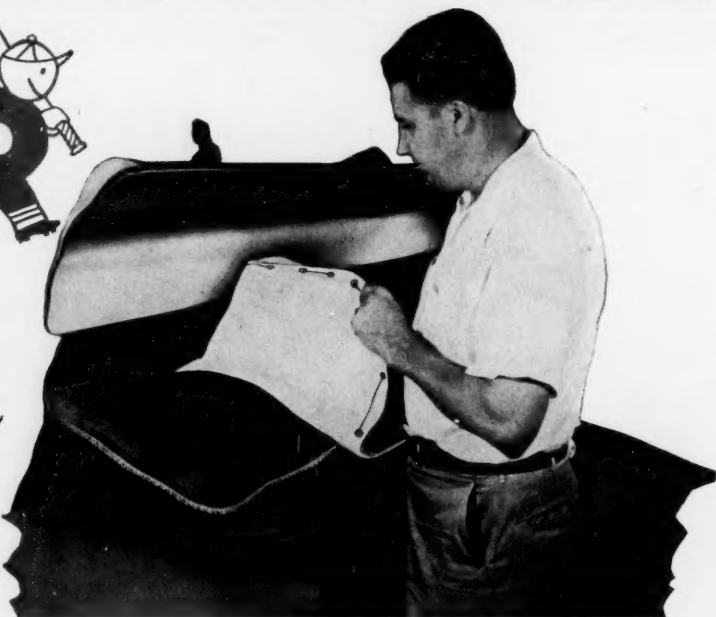
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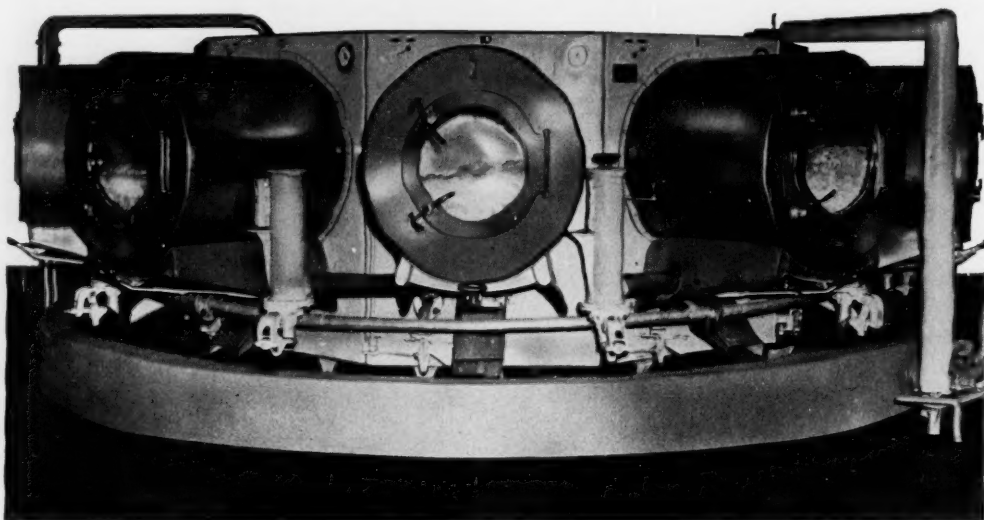
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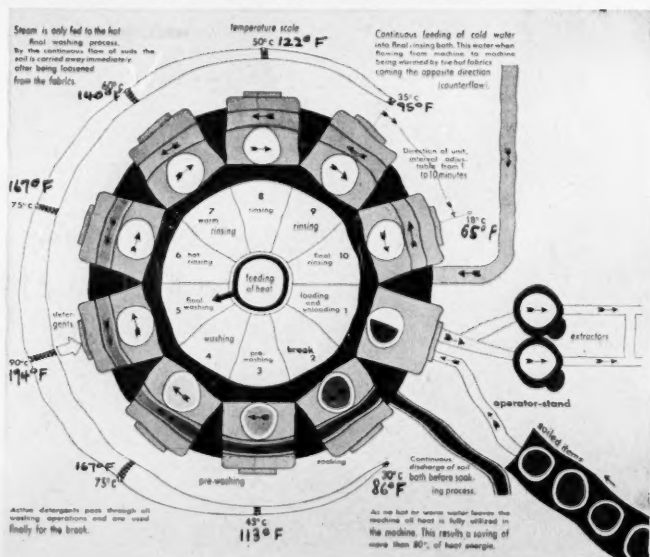
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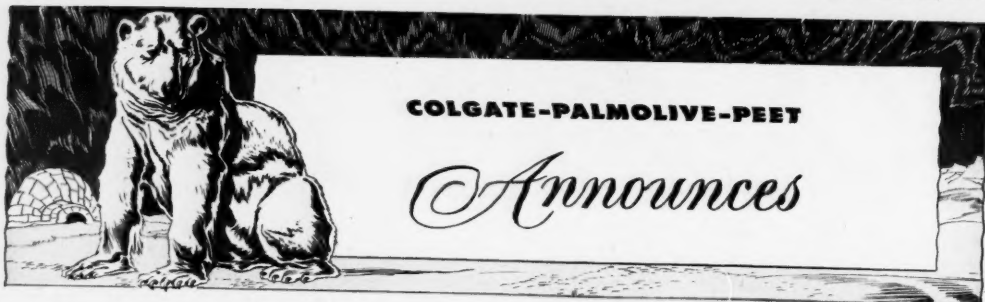
You can assure the quality of your work by using Armour soaps and detergents. For instance, Hilo Powder, a balanced blend of carefully selected medium titer soap and builders, knocks out 90% of the dirt on the first run at safe, low temperatures.

For whitework, Flint Chips and Giant Powder are high titer (41-42°) products that stay active under high whitework temperatures. Flint is a neutral soap with a minimum of 88% anhydrous soap, and Giant is a ready-built product with high soap content.

For these and other Armour products, see your Armour salesman today. Remember, he has more different soaps and synthetics than anybody!

ARMOUR
Industrial Soap Department

Armour and Company • 1355 West 31st Street • Chicago 9, Illinois



A New Detergent ARCTIC SYNTEX HD

An All-Purpose Detergent for All Laundering and Cleaning Jobs

**HERE'S WHY YOU SHOULD USE
ARCTIC SYNTEX HD:**

1. Makes abundant suds.
2. Has high detergent efficiency.
3. Retains its full detergent effect in even hardest water.
4. Acts to disperse insoluble (lime) soap scums already formed.
5. May be used in acid solutions. Often necessary to keep colors from bleeding.
6. Contains Colgate's Laundry Brightener to make white work look whiter, colors brighter.
7. Does not promote felting or shrinking of woolsens.
8. Is a good wetting-out and penetrating agent.
9. Does not turn rancid and develop bad odors if left in fabrics.
10. Can be used to improve the "handle" of woolsens previously washed with soap-type detergents.
11. Is effective in alkaline, acid or neutral solutions.

Order Today in 100-lb. drums.

Arctic Syntex HD is a new type of heavy-duty detergent with new properties. A safe, speedy detergent, Arctic Syntex HD is ideal for all types of general laundry work. It can also be used with excellent results for general cleaning operations throughout the plant.

**FOR BEST RESULTS ON ALL
THESE LAUNDRY "SPECIALTY"
JOBS USE ARCTIC SYNTEX HD**

Woolsens, Athletic Uniforms, Silks, Caps, Gowns and Habits, Synthetics, Curtains, Diapers, Tufted Chenille, Summer Suits and Slacks, Fugitive Colors.

IMPORTANT!

If you launder diapers, write for a **FREE, SPECIAL BULLETIN** telling why Arctic Syntex HD is the best detergent to use. Also directions-for-use booklet—Laundering, Wet Cleaning, Scouring, etc.

C. P. P. Advisory Service is **FREE!**
Contact your C. P. P. salesman today
or write us direct.

COLGATE-PALMOLIVE-PEET COMPANY

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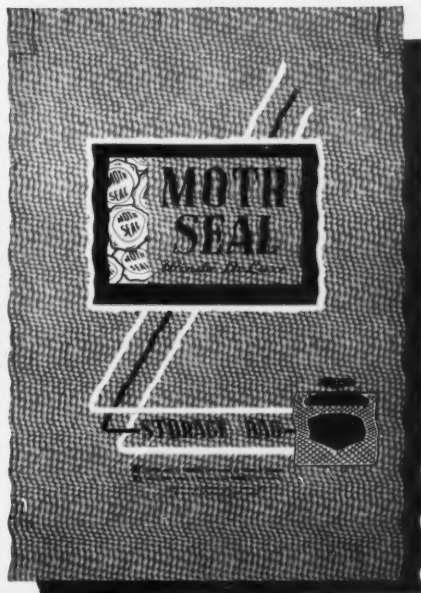
A beautifully cleaned
blanket



deserves a

Moth Seal
Blanket Bag!

This is the correct way to store cleaned
blankets. Two styles . . . Standard Cedar
Grain without Windo . . . and Deluxe
Windo style!



Write today for FREE samples!

*Serving the
laundries and
dry cleaners
of America*

Lincoln Bag Company, Inc.

Para-Lux Products Company

4200 WEST SCHUBERT AVENUE • CHICAGO 39, ILLINOIS

New CMC Formula



Here's a new product that really gives you something new in finishing agents. It's "CMC Formula"—a readily soluble material that gives you greater ease of washing, greater ease of finishing—and gives a higher quality finish that everyone will immediately recognize.

CMC Formula, a new development from the research laboratories of Hercules Powder Company, is now available in commercial volume.

EASY AND ECONOMICAL TO USE!

- Add CMC Formula in the final operation—sour or blue.
- In most cases, from one-half to three ounces of CMC Formula to one hundred pounds of load gives the quality of finish and body desired.

"CMC FORMULA" IS AVAILABLE THROUGH CARMAN & COMPANY, INC. AND THE MORRIS & ECKELS COMPANY. ASK FOR...

Orders, inquiries on price, delivery, etc. should be made through your nearest Carman branch office.

CARCO
CMC FORMULA

Revolutionizes Finishing!

USE NEW CMC FORMULA FOR:

● HIGHER QUALITY FINISH

The difference in the appearance and feel of the fabric is immediately apparent. It has a newness, a smooth feel, a crisp, fresh appearance. The fabric has fullness without harshness.

● EASE OF FINISHING

No sticking, no annoying buildup on press or flatwork ironers.

● EASE OF WASHING

CMC-treated articles wash cleaner—easier. There is less penetration of soil, because CMC stays on the fabric surface to check redeposition of dirt during laundering. This has been proved in work done for the U. S. Department of Agriculture at the Institute of Textile Technology. Further, CMC makes it possible to use less soap, alkali, and bleach. Some washroom operators have been able to eliminate one or more suds and/or bleaching operations.

● SHARPER COLORS—WHITER WHITES

Sparkling white, gleaming bright—the way everyone likes! Or, on colored fabrics, use CMC Formula to produce a sharpness and lustre, and avoid the "chalky look" frequently left by other agents.

● AND—A SIZE BESIDES

It is possible to use CMC Formula as a complete sizing all by itself even in hand-dipping. But CMC Formula is much more than a size. It's a multi-purpose finishing agent with unique properties that have been established through several years' research as well as through full-scale use by a group of leading commercial laundries.

● ECONOMICAL, TOO

Very small amounts of CMC Formula are required. You save on "wheel time" and in washroom supplies. You can buy CMC Formula in handy, standard 64 lb. paper bags.

HERCULES POWDER COMPANY Cellulose Products Dept., 952 King St., Wilmington 99, Del.



HERCULES®

CMC

FORMULA

DRY... GRANULAR... FAST-DISSOLVING

CM52-17

SMOOTH AS GLASS
 . . . flat work done with
KARAGAMI WAX



Want wrinkle-free sheets and flat work that will keep your customers contented? Use Karagami Wax! With Karagami, sheets and spreads won't gather, wrinkle, or pick up on your ironer. Flat work slides through easily, comes out sparkling clean and ready for folding.

Karagami Wax reduces reruns, minimizes chance of scorching tape or cover. And it's so very, very easy to apply! The handy sifter can works like a dream, eliminates mess or spillage associated with oily substitutes that are hard to handle and actually cost more!

Ask your jobber now for powdered Karagami Wax. Packed in sifter cans and in bulk lots, it's as inexpensive as it is effective and efficient! Comes in cake form, too!

Concord Chemical Co.
 Moorestown, N. J.

We want to try it. So please send us a
 FREE 1 lb. sample can of Karagami Wax.

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MOORESTOWN, NEW JERSEY — Moorestown 9-1100

CRESYLIC ACID • JAPAN AND CARNAUBA WAX REPLACEMENTS
 CANDELLILLA WAX • REFINED TALL OIL

Hammond Hits The Target Again with the HAMMOND "44" Open End TUMBLER

● This new 100-pound capacity Hammond "44" Open End Tumbler with the world famous Hammond mechanical reverse now gives you a large capacity tumbler with greater speed plus . . . exceptional drying performance . . . more than *TWO Pounds of Moisture per Minute*.

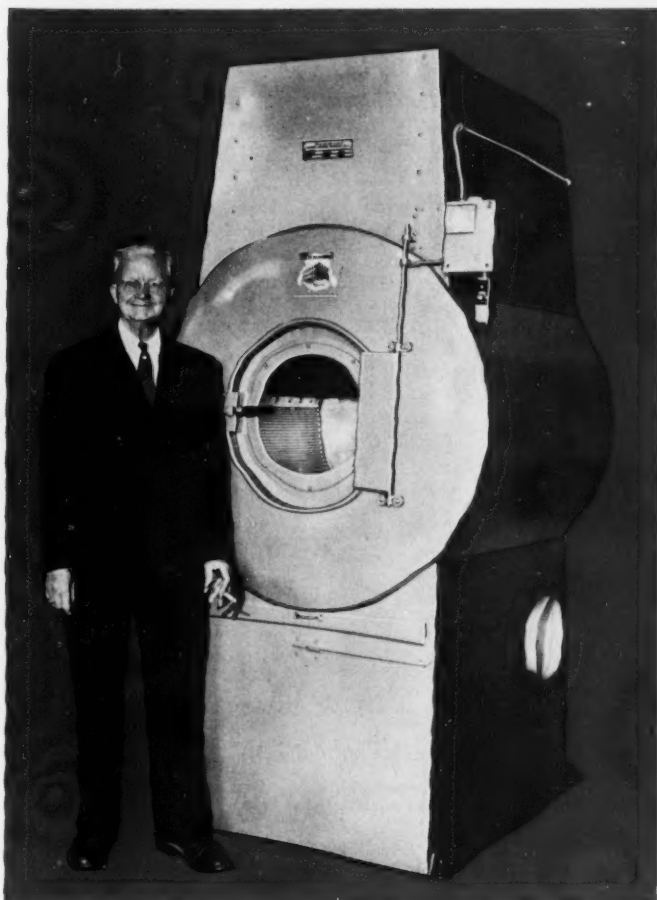
The reversing drive results in faster drying without knotting, and frequent reversals give much greater uniformity. Only one motor required . . . no reversing switches . . . built-in lint trap is standard equipment . . . plus the same trouble-free construction and durability that have made Hammond Tumblers so outstanding.

CONSTRUCTION—The construction of the Hammond "44" embodies the new type construction developed for the world famous Hammond Open End Washers. Motor, drive and cylinder are all supported by heavy channel members. Outer shell and base enclosure are built as an integral part. A new standard for ruggedness and accessibility.

DRIVE—Hammond Mechanical Reverse with 17 U. S. Patents. All principal parts totally enclosed and operate in oil bath. Cylinder shaft carried on Timken Tapered Bearings.

CYLINDER—44-inch diameter—42-inch depth. Normal rating 100-pounds dry weight. Four 4½-inch lifting Ribs with internal tie rods which serve to bind cylinder to heavy steel trunion. A life-time of rugged service.

HEATING UNITS—Three styles available. Laundry tumblers are offered with either steam coils or indirect gas fired. Dry cleaning tumbler equipped with steam coils only, control damper, steam spray, and automatic fire extinguisher.



SPECIFICATIONS

Height—96 inches

Width—46 inches

Front to back—62 inches

Shipping Wt.—1800 lbs.

Motor size—one and one-half horsepower (1½ HP)

Electrical characteristics
1/110 1/220 3/220

SINCE 1911

Hammond
LAUNDRY-CLEANING MACHINERY CO.
WACO, TEXAS

Advance-Design

CHEVROLET TRUCKS

These
PLAIN HARD FACTS
are important to
economy-minded
truck buyers

Fact
No. 1

CHEVROLETS LIST FOR LESS

First cost—the list price—is less for a Chevrolet than for any comparable truck capable of handling the same payload. Chevrolet's position as the world's largest manufacturer of trucks makes possible production savings that are passed on to you.

Fact
No. 2

COST LESS ON THE JOB

Proved Chevrolet truck features save money over thousands of miles. Time-tested Valve-in-Head engines, rugged hypoid rear axles, extra-sturdy channel-type frames, Flexi-Mounted cabs, Ball-Gear steering, Synchro-Mesh transmissions, all contribute to low operating costs with high dependability.

Fact
No. 3

EACH TRUCK TAILORED TO ITS JOB

Every Chevrolet truck is factory-matched to the job it's going to do. Tires, axles, frame, springs, engine, transmission, and brakes are right for the operating conditions and load. Whatever your job is, there's a Chevrolet truck to fit it.

Fact
No. 4

WORTH MORE AT TRADE-IN TIME

Chevrolet trucks traditionally bring more at resale than other makes costing about the same when new. Chevrolet trucks keep their value longer and give you real, substantial savings right up to the day you sell them. See your Chevrolet dealer soon.

CHEVROLET ADVANCE-DESIGN TRUCK FEATURES

TWO GREAT VALVE-IN-HEAD ENGINES—**Loadmaster** or the **Thriftmaster**—to give you greater power per gallon, lower cost per load • **POWER-JET CARBURETOR**—for smooth, quick acceleration response • **DIAPHRAGM SPRING CLUTCH**—for easy-action engagement • **SYNCHRO-MESH TRANSMISSION**—for fast, smooth

shifting • **HYPOID REAR AXLE**—for dependability and long life • **TORQUE-ACTION BRAKES**—on light-duty models • **PROVED DEPENDABLE DOUBLE-ARTICULATED BRAKES**—on medium-duty models • **TWIN-ACTION REAR BRAKES**—on heavy-duty models • **DUAL-SHOE PARKING BRAKE**—for greater holding ability on heavy-

duty models • **CAB SEAT**—with double-dock springs for complete riding comfort • **VENTILATION**—for improved cab ventilation • **WIDE-BASE WHEELS**—for increased tire mileage • **BALL-TYPE STEERING**—for easier handling • **UNIT-DESIGNED BODIES**—for greater load protection • **ADVANCE-DESIGN STYLING**—for increased comfort and modern appearance.

CHEVROLET DIVISION OF GENERAL MOTORS, DETROIT 2, MICHIGAN



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Put 'em on a diet . . . with Pure Oil Industrial Lubricants

In the complete line of high-quality industrial lubricants Pure Oil makes, you will find many oils and greases designed to do several different jobs, instead of one specific job.

And to do each job equally well.

This makes it possible for you to do all your lubricating with fewer lubricants. In other words, you can

simplify and save . . . with

Pure Oil Industrial Lubricants

Be sure

with Pure



If you would like to keep your lubrication requirements from hogging your profits (and a penny saved is more than ever a penny earned, these days!) write: The Pure Oil Company, Industrial Sales, 35 E. Wacker Drive, Chicago 1, Illinois.

NOW.



See your jobber today or write direct for a trial demonstration.

No obligation whatsoever. A **FORMULA CONTROL** sells for only \$165.00 F.O.B. Chicago, and fits all types of washers.

Get that trial demonstration today and be convinced.

There's no guessing, no repeats, no skipped operations or rinses, no operating a minute longer or shorter than your formula requires. Audible and visible signals command operator attention. After each operation the dependable **FORMULA CONTROL** automatically opens the dump valve . . . then closes the valve before refill. Washman merely resets the **CONTROL** in accordance with **YOUR OWN** formula.

MORE LOADS PER DAY WITH LESS HELP

One laundry reports that **TWO** men now load, wash, pull and extract 10,000 lbs. per day with seven washers. Before **FORMULA CONTROLS** it took **FOUR** men to handle only 6,000 lbs. per day with the same washers. And the washing is better, more uniform.

Ask your jobber or write direct—today

FORMULA CONTROLS, Inc.

612 W. 20TH STREET • CHICAGO 26, ILLINOIS

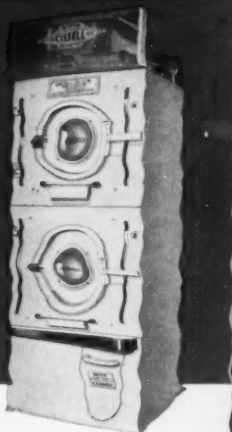
SIMPLY WONDERFUL!

CISSELL TWIN LAUNDRY TUMBLERS

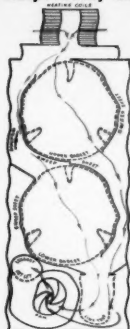


For the "Big News" story of the day, the Cissell Twin Laundry Tumbler is the only machine that can be removed and replaced in less than 15 minutes. And, not all the facts about this new machine are in the advertisement.

Wonderful things happen when two drying units operate independently



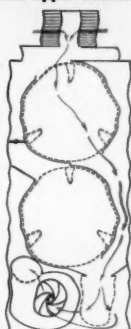
SKILLFULLY DESIGNED SWEEP SHEETS direct flow of hot air independently and simultaneously thru lower and upper baskets



LOWER BASKET DAMPER "ON"
Both baskets heated uniformly.



LOWER BASKET DAMPER "MEDIUM"
Upper basket maintains maximum heat while lower basket has medium heat.

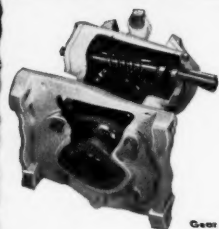


LOWER BASKET DAMPER "OFF"
Upper basket maintains maximum heat. No heat to lower basket.

SIMPLE OPERATION—Two 26" x 24" galvanized-steel baskets—each with 15 pounds dry weight capacity—**OPERATE INDEPENDENTLY** with separate motors and control switches. When operator opens a door, that basket stops; exhaust fan continues to run and, thus, draws outside air into basket through open door... prevents a hot-air blast in operator's face. **LOADING AND UNLOADING IS EASY!**

SPEED—When both baskets are operating and one door is opened, the other basket **CONTINUES TO RUN**. **NO DRYING TIME IS LOST**. Hot, dry air is moved independently through each basket and exhausted through **LINT TRAP** to atmosphere.

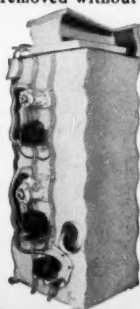
CLOTHES ARE DRIED UNIFORMLY—at the same time in lower and upper baskets. The reason: skillfully designed sweep sheets and damper control of lower basket. (See drawings at left.) Woolens may be dried at a low temperature in lower basket while cottons are dried at a higher temperature in upper basket. If load in lower basket is only partially dried, the placing of a full wet load in top basket will not alter the normal drying time required for either basket. See why we say it's "SIMPLY WONDERFUL!"



Gear Reducer cut-away to show internal parts

CISSELL GEAR REDUCER

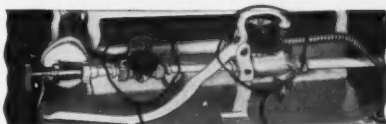
Engineered and manufactured by Cissell for precision control of every part. Equipped throughout with Timken Tapered Roller Bearings. Internal gears and bearings **OPERATE IN A BATH OF OIL**. (Actually, you drain and refill 1 pint of oil every six months—no other service.) Either Gear Reducer or basket may be removed without draining oil.



ANY PART CAN BE REMOVED AND REPLACED in less than 15 minutes

Skillful designing extends even to the rear of a Cissell Twin Laundry Tumbler. The result: entire back is streamlined... accessible. One, one-sixth h.p. motor drives each basket. One, one-quarter h.p. motor drives fan. Fan motor is mounted on heavy cast-iron support—removed as a complete unit. Fan is direct driven for 60 cycle (and direct current). (Belt driven for 25 and 50 cycles.) Individual reduction gear drive for each basket. Non-explosion proof switches and single phase motors, 110 or 220 volts. Big, bulky, 16-gauge **STEEL CONSTRUCTION**... made to the highest quality standards—not to low-price specifications.

BASOID VALVE at right
THERMOSTATIC GAS THROTTLING VALVE at left



Your automatic watchmen

ON THE GAS-FIRED TUMBLER these valves are your automatic watchmen. The "magic" Thermostatic Gas Throttling Valve permits gas flame to burn at its maximum during starting period. During this stage the gas flame is continuously and automatically throttled until the lowest possible flame is reached for maintaining the proper operating temperature. Actually, you have a safeguard against overheating and use a minimum of gas to provide a maximum of efficiency. **THE BASOID VALVE** automatically turns on gas flame when either basket motor switch is placed in "ON" position... cuts off gas flame only when both basket motor switches are "OFF". **UPPER FRONT PANEL LIFTS** for quick accessibility to gas controls. Available for manufactured, mixed, natural, Propane or Pyrolox, or Butane.

BUILT-IN CLEANING BRUSHES remove lint from Gas-Burner Assembly in a matter of seconds... another Cissell exclusive feature.

ON THE STEAM-HEATED TUMBLER two, double heating coils are highly efficient. In addition to damper on lower basket, another damper controls hot or medium-steam air from heating coils to both baskets. Operates on steam pressure up to 125 pounds.

THE CISSELL GAS-FIRED TWIN LAUNDRY TUMBLER.....\$590
THE CISSELL STEAM-HEATED TWIN LAUNDRY TUMBLER.....\$590
F.O.B. Louisville, Ky. White or Pastel Green Baked Enamel Finish.

CISSELL

Users say...

"Nothing"
The Whitehouse

**Other WHITEHOUSE products
specially designed for laundry
and dry cleaning industries**

**Depend on Whitehouse for a full line of
nylon cover cloth material, including
KEMPRO and the new ADS-LIFE nylon
covers. Both these covers can reduce
the "down time" on your presses. Ask
your jobber, or write us direct for more
information on any Whitehouse product.**

like it!

ROK-RIB Net
outwears any net tested!

For exceptional wearing qualities...for amazing durability under the wear and tear of daily service, you can't beat Whitehouse ROK-RIB nylon nets.

Users tell us they've seen nothing like ROK-RIB. These nets are specially constructed to last...and last. The heavy-filament nylon yarn from which ROK-RIB nets are woven was developed *specifically* for laundry and dry cleaning applications.

Of the many nets tested in Whitehouse's laboratories, ROK-RIB outwears them all! Try them yourself. See how ROK-RIB nets can reduce your replacement costs, save you money by helping to increase washwheel payloads, save on supplies, power and water.

DON'T FORGET Whitehouse "Blue Streak" nets—now standard for the laundry and dry cleaning industry. They're still growing in popularity.

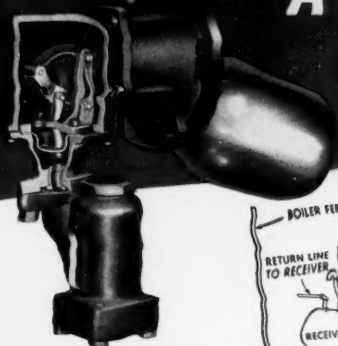
WHITEHOUSE NYLON PRODUCTS

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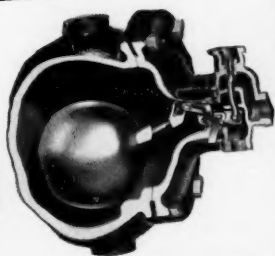
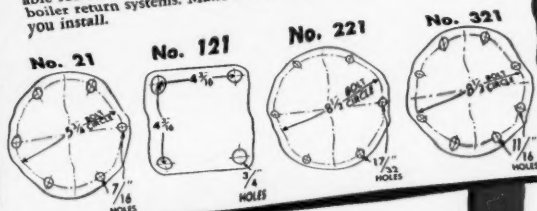
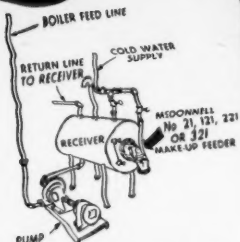
A lot of receiver tanks need a better make-up feeder!



No. 21

for tank mounting

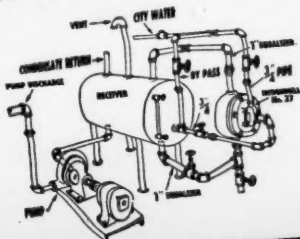
The drawing above shows how No. 21 Series feeders are designed for mounting right into receiving tanks. Only one water supply connection is needed because the water is fed through the body directly into the tank. Features are big capacity and tight closure. Drawings below show flanges available for existing tank openings. This type is available on new boiler return systems. Make sure you get it on any new system you install.



No. 27

for separate mounting

Drawing below shows installation of No. 27 with equalizing piping to establish float level, and separate water feed line to receiving tank. Feeder has big capacity and tight closure. Use it for existing tanks when there is no closure. McDonnell No. 21 Series feeder adaptable to conditions.



IN our years of building boiler water level controls to guard against the costly dangers of low water, we have been constantly barraged with requests to build a better make-up water feeder for receiver tanks.

Our answer to this is the No. 21 Series and No. 27 illustrated here. If you need a dependable make-up feeder for your receiver you can make no better investment than the installation of one of these sturdy, well-built feeders.

If you already have an opening in your receiver, use one of our flange mounted No. 21 series feeders (see dimensional drawings opposite.) If not, install our number 27 feeder which is designed for external mounting with 1" equalizing piping as shown in the diagram below.

You will then have a make-up feeder that will close off drip-tight against any supply pressure up to 150 lbs. — one that will dependably maintain a safe level in your receiver.

Note in the illustration of the No. 21 series feeder, above, the large integral strainer which keeps foreign matter away from the valve. This is typical of the care exercised in every detail to make these feeders perform right and close off tight.

We hope you already have a McDonnell No. 150 or No. 157 Pump Controller, Low Water Cut-off and Alarm on your boiler to dependably start and stop your pump in accordance with the demands of the boiler for make-up water. If not, why not install this better control along with the receiver make-up feeder? The complete installation will put your boiler water level control on a new, trouble-free, dollar-saving basis.

Coupon brings bulletins containing complete engineering data and typical installation drawings.

MCDONNELL & MILLER, Inc.
3500 N. Spaulding Ave., Chicago 18, Illinois

Doing One  Thing Well

MCDONNELL

Boiler Water Level Controls

MCDONNELL & MILLER, Inc.
3500 N. Spaulding Ave., Chicago 18, Ill.

Please send complete engineering information on McDonnell method of boiler water controls for following condition:

MAKE OF BOILER _____ MODEL _____
MAX. STEAM PRESSURE _____ LBS. _____
FIRM _____
INDIVIDUAL _____
STREET AND NO. _____
CITY _____ STATE _____ ZONE _____



Always Pops Up
"JOMAC[®] 54"
SCORCH-RESISTANT PADDING



Use it on your toughest presses. Its thousands of springy loops instantly pop up after every operation and permit the steam to flow uniformly through the padding. "Jomac 54" is guaranteed* to give you more wear than double-faced flannel. You'll find it saves you from 25% to 40% of your press padding costs and up to 75% of your pad-replacement time. "Jomac 54" . . . a full 54 inches wide . . . fits any size buck, resists scorching, is highly absorbent and uniformly porous. Sold by better laundry suppliers everywhere. Write today for literature and name of your nearest "Jomac 54" supplier.

**Money back if "Jomac 54" does not outwear double-faced flannel.*

→ A FULL 54 INCHES WIDE ←

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105-120 Lbs./hr.



Maniowoc

*More Cleaning Per Hour
Less Cost Per Pound*

You get both with a Maniowoc. More cleaning per hour because a Maniowoc tumbles while it washes. There's no waste of time — your machine is working on "both barrels" every minute. That's why you can produce more, and profit more with a Maniowoc.

Double drum design is the real answer to faster and higher production — it makes "on-the-premises" cleaning practical and profitable. It gives you finer cleaning — faster cleaning — more economical cleaning.

If you are interested in a synthetic machine that is built to the highest standards, with all the most advanced features, yet is priced lower than any machine of comparable capacity, get complete details on Maniowoc — the best investment you can possibly make.

COSTS LESS
\$4860

Plus ALL these features

- ★ CONTINUOUS DISTILLATION
- ★ CONTINUOUS FILTRATION
- ★ DUAL-LEVEL VENTILATION
- ★ SLUDGE AGITATOR
- ★ BIG 36" x 30" RECOVERY TUMBLER
- ★ UNDERWRITERS LABORATORY

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Synthetic

PERCHLOR DRY CLEANING UNIT

MANITOWOC ENGINEERING
CORPORATION
513—16th Street
Manitowoc, Wisconsin

Starchroom Editorial

Looking Ahead

What will the United States be like 25 years from now? How many people will live here? How much money will they earn?

Questions like these were put to members of the President's Materials Policy Commission, a group of experts from industry and Government headed by William S. Paley, chairman of the board of Columbia Broadcasting System. Members of the group pooled their information and studies and came up with conclusions that are collected in a massive, five-volume report.

Looking back at the past population figures (76 million in 1900, 116 million in 1925 and 151 million in 1950) the commission notes that the United States is a growing nation, not one that has reached "maturity." Population is in a strong upswing. Growth ahead will probably average around three percent per year. This would indicate a population of 193 million in 1975. It will be like adding most of the population of Great Britain to the U. S. The commission reasons that periods when progress slows down will be followed by periods of catching up, a pattern which has been followed for over half a century and one which should be followed in the future.

In reporting on the commission's findings, *U. S. News & World Report* has this to say: "Stores and service establishments will increase faster than population rises, as in the recent past. There is one commercial establishment for every 28 persons now; by 1975, there will be one for every 20 persons . . . Spending, at present prices, will be double what it is now. People will have much more of everything and a much higher living standard . . . Jobs, by that time, will exceed 79 million and rates of pay will be a good deal higher than now."

While the costs and economic effects of a big defense force are figured into these estimates, they are based on one big "if." That "if" is the assumption that our national growth will not be interrupted by the dislocations of a big war.

All of this is of interest to the laundryowner because, by applying some elementary arithmetic, he can see what it will be like doing business in 1975. For instance, that increase in the number of stores and service establishments forecasts a greater number of power laundries and self-service laundry establishments. It could mean that there would be as many as 10,600 of the former and 10,900 of the latter 25 years from now. According to the Census of Business for 1948 these figures were 8,343 and 8,523 respectively.

According to the census figures, expenditure for laundry service (not including hand laundries) was just under \$8.24 for every man, woman and child in 1948. According to the commission's projected population figures, this would amount to 347½ million dollars more laundry sales in 1975 than in 1948. And, if we accept the commission's forecast that spending, at present prices, will double what it is now, we come up with a

laundry sales figure of somewhere between 2½ and 3½ billion dollars. In 1948, it was \$1,242,535,000.

This assumes, of course, that laundries in 1975 will enjoy the same share of the consumer's spending dollar they enjoyed in 1948. It does not take into account the technological changes which must and will occur in the next 25 years. Nor does it take into account the steps which progressive laundryowners will take by way of expanding present services and introducing new services in the interim.

Don't forget that the third Procter & Gamble consumer survey showed that 64 percent of today's 28 million urban housewives are not using laundry service at all. Of these, *over half have never even tried it*. The industry has a prospect list of almost 18 million housewives waiting to be sold today, not 25 years from today.

While the survey found that those housewives whose laundries were offering drycleaning increased from 52 to 62 percent between 1947 and last year and the percentage of housewives who take advantage of that additional service increased from 26 to 32 percent in that period of time, *almost half* of those who know this service is available do not use it.

And, finally, don't overlook these facts. It is estimated that only ten percent of all rugs sold ever reach a rug cleaning plant. A Maryland laundryowner entered the rug cleaning field in May, 1950, with an original investment of \$22,500, exclusive of his building, and showed a profit of 7.42 percent on \$32,000 sales for the year ending September 30, 1951. His productive labor cost was a little over 15 percent. Think of the saving to be made by spreading laundry delivery costs over another service, such as rug cleaning, in addition to the profit to be derived from the additional sales.

The Paley report paints an encouraging picture of the future for America and its industries. Laundryowners are justified in looking forward to that future with anticipation of rendering more services efficiently to more and more people. But, in the meantime, there is a lot to be done *today* by way of strengthening their individual positions. In meeting today's problems today they will automatically be preparing for tomorrow—and 1975.

Want Ad

GIRL
for
BUNDLING
Progressive Laundry
440 Oneida Street
—Syracuse Post-Standard

In reprinting the above, *The New Yorker* adds, "You mean during hours?"



The key to bigger bundles is Better Shirts

A.I.L. CAMPAIGN PROVES
POWER OF SHIRT
SERVICE AS A POTENT
BUSINESS BUILDER

I'VE BEEN ON THE
JOB 20 YEARS. I'M
WORN OUT...JUST CAN'T
DO ANY MORE! IT'S TIME
I WAS RETIRED

A shirt is no
better than
its starching...

Collar Comfort All Day Long!

I CAN GIVE
YOU PERFECT
STARCH FOR THE
FINEST SHIRTS
IN TOWN!

THE BEST STARCH IS

Cooked STARCH

Only with cooked starch can you produce the beautiful shirts that look right... feel right... stay right all day long, to bring you profitable repeat business (and the rest of the family bundle along with the shirts). Cooked starch penetrates more uniformly... gets "inside" the fibres to give the fabric soft, pliable body and the silky-smooth "feel" of real quality... doesn't just lie on the surface to cause ugly shine, blisters and rough harshness. Cooked starch dries faster and more evenly on the press to save time, boost production. More economical, too... goes 15% to 20% further than raw starch. Cooked starch means finer, satin-like finishing, faster, at less cost. But good cooking needs good equipment! You can't get starch of proper consistency and keep it at the proper temperature with a worn-out, inefficient contraption that wastes starch, steam and time.

Get a new BISHOP COOKER

Made of non-corrosive copper... the perfect heat conductor. Double-wall construction, with inner and outer walls scientifically spaced and permanently insulated—prevents sweating and radiation of heat... holds the heat in to keep starch at right temperature indefinitely for proper penetration.

THESE GIVE YOU BETTER SHIRTS, TOO!

in less
time...
at less
Cost!

DRES'N'SPORT FOLD TABLE
With heated expanding collar mold. For fast, flawless folding of both dress and sport shirts.
No. B1-33, \$299.00

BISHOP SHIRTRANSPORTS
Cut handling 3/4; fold up to save space. All steel. In 2 sizes: B29-50 (for 50 shirts); B29-100 (100 shirts).



**REVOLVING
SORTER \$332.25**
50 bins in arm's reach to sort twice as fast in half space. Turns at flick of finger; holds 500 shirts. Won't tip. No. B26-10.

3 POPULAR SIZES

15-Gallon (floor space 24"x28"),
Model B3-2.....\$230.00
25-Gallon (floor space 28"x32"),
Model B3-5.....263.25
50-Gallon (floor space 32"x36"),
Model B3-11.....308.75
P. O. B. CHICAGO

**COPPER IS SCARCE
... LIMITED STOCK.
PLACE ORDER NOW**

For you, BISHOP has looked ahead, built ahead. Despite the shortage of defense-essential copper and brass, you can get the new BISHOP cooker you need—if you act promptly!—for faster, more-thorough cooking... finer-looking, finer-wearing shirts.

Order Now FROM YOUR SUPPLIER...

HE IS OUR DISTRIBUTOR

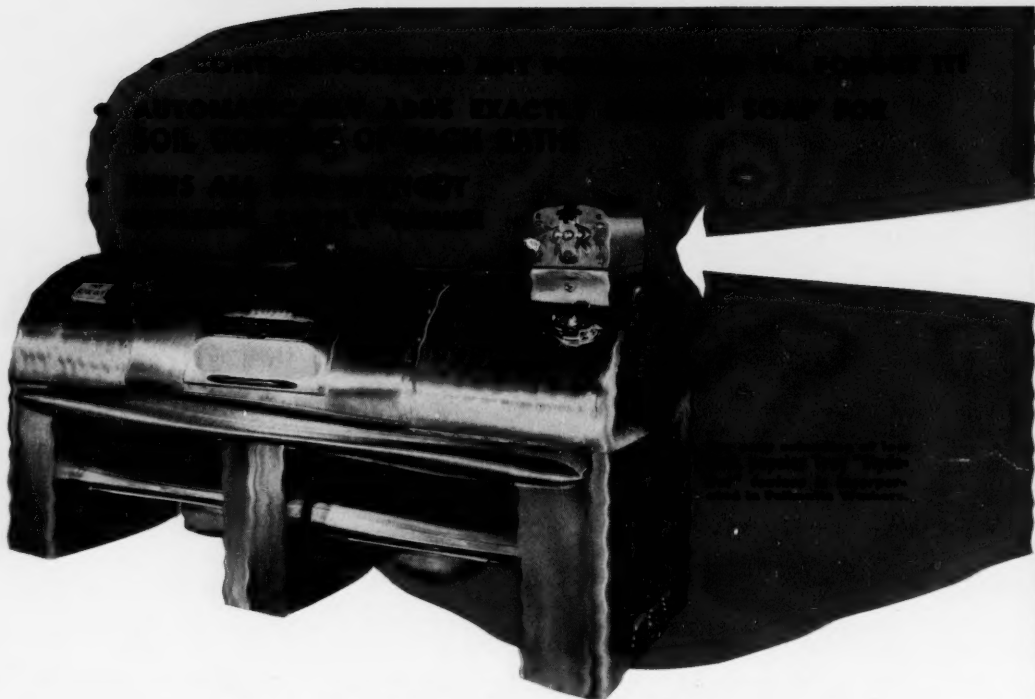
G. H. BISHOP CO., CHICAGO



MANUFACTURERS SINCE 1891

IT'S HERE . . . THE FIRST

New! TROY



WILLIE WASHMAN SAYS:

*Don't cut no rolls
Don't change no plates
Just flick the switch
And she operates . . .*

AUTOMATICALLY!



Now Troy proudly presents the first truly automatic washer. The Fullmatic Control follows any formula you select. Just set it and forget it. This control automatically regulates water temperature and fills cylinder to correct level for each washing operation . . . automatically injects exact amount of soap required for soil content of each load . . . adds measured amounts of other supplies when needed . . . regulates the number and length of suds and rinse operations . . . times each operation exactly, then drains machine . . . starts new operation . . . indicates washing progress by pilot lights . . . flashes 'finish' light and rings bell at close of washing cycle.

This new Troy Fullmatic is the result of 10 years of field research, engineering development and laboratory testing. In addition, selected laundries in different geographic locations have operated Troy Fullmatic Washers daily under actual

TRULY AUTOMATIC WASHER

FULLMATIC Washer



See

**TROY FULLMATIC
operate at
A.I.L. CONVENTION
Oct. 3-4-5**

...ations. Charles N. Brock, owner of Getchell Laundry and Drycleaning Company, St. Joseph, Missouri, says: "We installed a Troy Fullmatic Washer at Thanksgiving time in 1950. Every day, I am more and more convinced that it is the best washer of its kind on the market, and one of the best investments we ever made."

You can now buy an automatic washer with confidence. The new Troy Fullmatic is as flexible to use as your dial telephone and just as easy. Get all the facts . . . mail coupon below today.

READY NOW!

**NEW 6-PAGE
FOLDER TELLS**

**AMAZING
FULLMATIC STORY . . .
Send for your
Free Copy TODAY!**



TROY LAUNDRY MACHINERY DIVISION

American Machine and Metals, Inc.
Dept. 3LJ-952, East Moline, Illinois

- ☐ Send me a copy of your new 6-page folder
☐ Have a Troy representative call on me

Firm Name _____

Address _____

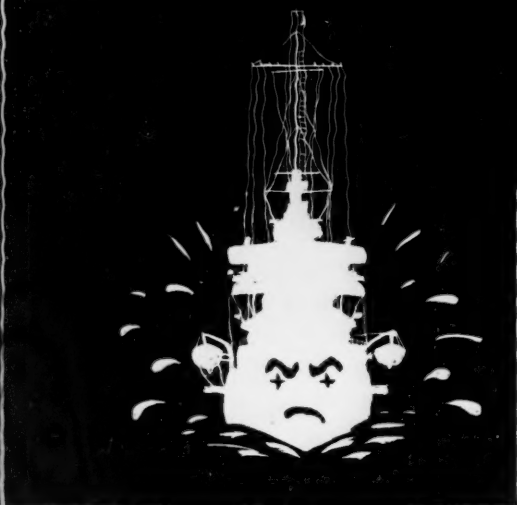
City _____ Zone _____ State _____

Sender's Name _____

Troy

LAUNDRY MACHINERY

Division of American Machine and Metals, Inc., East Moline, Illinois
BUILDING GLEET BUILDERS OR POWER LAUNDRY EQUIPMENT



THE SHIP WAS FAMOUS in the Pacific Fleet a few years before the recent war. Her captain was a man with a negative attitude toward life. His instinctive response to a proposal of any kind was a strong and decided "no," and the general announcing system was busy day and night passing out information that reflected his character:

"There will be no liberty."

"There will be no four o'clock boat."

"There will be no men out of uniform on the weather decks."

"There will be no . . ."

She was known, quite simply, as the Be-No ship.

Nearby was another ship of the same class. Her captain was no Pollyanna, no spreader of good cheer for good cheer's sake; but he had a positive attitude toward his command, and he possessed the happy faculty of phrasing his wishes in a way that made his officers and men understand them and execute them cheerfully.

If his ship entered port at 2:00 a.m. there would be liberty, and though only the married men showed any desire to go ashore at that hour, the others were content in the knowledge that they *could* leave the ship if they wanted. This ship might have been called the Can-Do ship.

The philosophy of Be-No is reflected in the operation of every laundry whose management possesses a negative outlook toward the human beings who work for them. The term "work for" is used advisedly. Certainly the employees in such a laundry do not work *with* the management.

It is frequently true that the man who wouldn't dream of attempting to repair his own car; who by no stretch of the imagination would consider taking apart

Introduction

expensive and delicate machinery in the plant without the benefit of professional advice, shows no hesitancy toward taking high-dives into the troubled waters of human relations. He can, he tells himself, "get along with people." And if things don't go too smoothly at the plant it's only because "those other fellows aren't willing to cooperate." Most of us incline to the belief that leadership, or, more simply, the ability to have others work with us and like it, is, like rifle-shooting and poker-playing, a God-given attribute possessed by every red-blooded American male. If this were true, we would have won the last war at a far smaller cost of life, time and money. Ask any veteran.

Too many men who should know better are wasting their time in a quest for push-button leadership. There is no such thing. If there was, why would a recent survey reveal that fully 60 percent of the average foreman's responsibilities involve personnel and human relations problems?

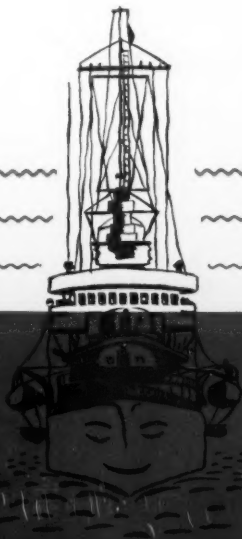
There is, however, a group of management tools which, when used intelligently, can assist laundryowners in checking up on themselves personnel-wise. These tools do not eliminate the human factor in personnel relations. They accentuate it. In so doing they go a long way toward closing the gap between our unexcelled technical "know-how" and what many social scientists

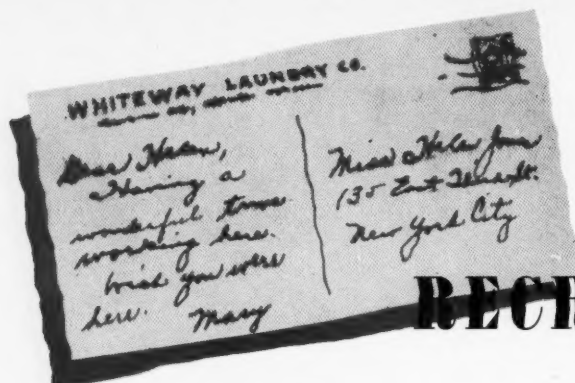
like to consider the exact science of human relations.

Whether such a science is about to come into existence, or ever will, we leave to others to debate. The important thing is that laundryowners now have tools at their disposal which they should not be afraid of investigating. Having investigated, they can decide which ones are best suited to meet the problems that exist in their plants.

We hope you'll find on the following pages some "assistants" in solving your problems of getting, keeping and training better employees; in controlling absenteeism, communicating more effectively with your workers or translating employee morale into profits. If so, the effort put forth in preparing this issue will not have been wasted.

If enough laundrymen are stimulated to start broad personnel programs where none existed before, the industry will have no Be-No plants. All will be Can-Do organizations and the communities they serve will be better places in which to live.





RECRUITING

THE FIRST PLACE TO LOOK for new employees is right in your own plant. You will be surprised at the degree of success you can achieve by getting your present workers interested in helping you find new ones. Not only will you get new workers but, in so doing, you will give your present group the feeling of "participation" in the solution of a management problem. This kind of employee participation helps boost morale.

Present productive employees are the internal employment agency of more than one laundry today. In some plants it has proved to be more effective and less costly than classified newspaper ads. But the greatest saving in these plants seems to come from the reduced rate of employee turnover directly traceable to the fact that the friends, relatives and neighbors of present employees who go to work in the plant as a result of this type of enlistment enjoy the common bond of friendship, on and off the job.

"Pot of Gold" plan

Wilke Laundry in Albany, N. Y., calls their plan "Pot of Gold." When a new tumbler operator, or sorter, or some other worker is needed, an announcement goes out over the public address system. The announcement states just what job is open and reminds the group of the standing Pot of Gold offer. If a worker brings in a friend or relative (or anyone else) who fills the bill, the award system goes into effect.

Here's how the system works. After the new employee has been working one full week, a Pot of Gold certificate worth five dollars is issued to the sponsor. Four weeks later, if the new worker is still on the job, a four-dollar certificate is issued to the sponsor. Another four-dollar certificate is awarded at the end of eight weeks, and still another after 12 weeks. If, after 16 weeks, the new employee is still at work, a 15-dollar certificate is issued.

This means that 17 weeks after the new employee's first day on the job, Wilke's will have paid out 32 dollars to the sponsor.

Pot of Gold also applies when sponsored employees are put on the prospect list, because of no immediate opening, and are hired later.

Management has kept careful records of advertising efforts which afford an accurate comparison between Pot of Gold and classified ads. They know that a one-column want ad, four inches deep, in the Albany papers costs approximately ten dollars. They also know that they can get the same job done for half the cost with Pot of Gold.

The sole function of the newspaper ad is to get the prospect into the office for an interview. If she is hired it has cost the management ten dollars. The first payment to an employee who has delivered a friend to the office is only five dollars. Management wins right away, from a cost point of view.

It costs the plant a lot more than 32 dollars in extra supervision, training and lower production every time an employee quits and has to be replaced. Pot of Gold enlists the aid of older workers to reduce this costly turnover by spacing the cash payments over a 17-week period. The worker who brought in the new employee thus becomes a sponsor in fact. In order to keep earning dividends and, finally, the Pot of Gold at the end, the sponsor works very hard to keep the new worker on the job for four months. Also, the fact that friend works with friend, or relative with relative, tends to strengthen the personal bond. Both are liable to stay longer and be happier if there is companionship at lunch, and back and forth on the way to work.

A higher type of employee is interviewed at a plant which follows a plan such as this. A newspaper ad can bring in all kinds of drifters. When an applicant who has been sponsored by a present employee arrives for the interview, chances are that she really wants the job and is likely to be at least as responsible as the sponsor. Frequently, much time has been saved because



"I know you majored in business administration, but the job of president is pretty well taken care of just now."

Briarcliff Laundry in Briarcliff Manor, N. Y., is located plumb in the center of Westchester County—an essentially residential area. There is no center of potential employees near the plant. During the war Briarcliff found that the only way they could keep their employees was to go get them. They bought a bus and assigned one of their productive workers to the part-time job of driver. Every morning he drives the circuit of employees' homes and brings them to work. In the evening he drives them home—a total of 32 miles every day. The plan worked so well that it was never discontinued.

the applicant has been "pre-conditioned" by the sponsor with regard to the requirements of the job, the kind of place the laundry is to work in, and various other employment advantages the plant may have to offer.

Forty-two percent of the employees hired as long ago as 1947 under the Wilke plan are still on the payroll in one capacity or another.

This is not to say that advertising in newspapers does not bring results. In reply to a recent survey, over 100 member plants informed the American Institute of Laundering of the steps they took during the war to secure workers. Many of these plants used newspaper ads with good results—some with poor results. Most of them used the classified columns. Some, however, used display ads.

The AIL has had their best luck in recruiting workers for their model plant in Joliet, Ill., with newspaper ads.

Timing is important for two reasons. First, ads placed on Sunday, Monday and Tuesday are more likely to result in prompt response. People who are looking for a job, or thinking about changing jobs, usually read the want ads on Sunday night and follow them up early on Monday morning. Secondly, a new employee can be put to work early in the week. This minimizes the hazard of hiring on a Friday only to find the applicant has changed her mind over the weekend and has not reported for work on the following Monday.

Copy is important, too. What you say is more important than the size of the space you use. AIL runs two different types of want ads. One assumes a positive approach, stating that they are definitely hiring new workers. It stresses that persons who apply in the morning, and are acceptable, will be working by noon. The other is somewhat more vague. It indicates that they are accepting applications for jobs and will be considering persons for employment some time in the near future.

In a tight labor market they always use the positive approach and, if possible, specify the type of work available. If the labor market is not too tight they run the vague type of copy, screen out those whom they do not want to hire and accept as many applicants as possible.

Don't overlook the value of transportation as a vital factor in recruiting employees. This appeal, of course, will vary considerably from one plant to another depending on the location of the plant, especially its proximity to a readily available source of potential workers. A laundry in Westchester County, New York,

has found it necessary to operate its own bus route daily to and from workers' homes. Since putting this plan into effect their recruiting problem has improved considerably.

You may not be able to do this at your plant but you can and should be sure to include transportation information in your ad copy. Many potential applicants fail to answer ads because they feel a plant may be too far from their homes or too inaccessible by public transportation. If new or more convenient bus routes leading to your plant have recently been established, say so in your ads and see if it doesn't increase the number of applicants.

Remember that many shifts in population centers have occurred since the war. These shifts are still taking place. As a result, many people seek changes in employment to shorten up, or eliminate altogether, their commuting problem. This is another reason why you should include transportation information in your ad copy. It is also a most important reason for including a telephone number in the copy, including hours during which the phone will be answered.

Many people living near your plant have jobs in other communities. For this and other reasons they are unable to take time off to investigate your opportunity during their working hours. This may require paying some of your present employees to answer the phone for you during the evening but, here again, the results achieved should be worth the additional expense. It is frequently during the evening hours that phone response to employment ads is the heaviest.

The extent to which laundries offer employees "fringe" benefits is a question of current interest which is discussed in the pages which follow. Experience at the AIL plant indicates that such benefits as vacations and group insurance, new a few years ago, are now so commonplace that they are taken for granted by prospective employees. Hence, they do not constitute appeals to workers which can be effectively used in employment ads.

That may well be insofar as the larger plants are concerned—plants with standards comparable to those of the average AIL member. But the question is of more than academic interest to the constantly increasing number of smaller plants in the industry. These plants, many of which have come into existence since the war, are gradually increasing their services and installing



"My wife says she's willing to work for you, but she wants to be foreman."



heavier productive equipment—all of which means that their productive payrolls are increasing in size. Such of these plants that offer "plus" or "fringe" benefits which other small businesses in the community either do not or cannot offer would seem to have one or more very effective appeals to emphasize in ad copy.

There are some 2,000 offices of state employment security agencies in towns and cities throughout the country. One of these offices is near enough to your plant so that an inquiry by phone will be well worth the money spent. A laundryowner in the East is experiencing excellent results recruiting workers with the cooperation of his local office. The government agency pre-screens all of its applicants for him, tests all applicants for laundry work and refers to him only those who are qualified. In this particular case the government office has even agreed to buy laundry aptitude tests which the laundryowner recommends. Interested laundryowners should contact the Placement Bureau of the nearest state employment office for help.

Help from Bell System

There is another local employment facility which can frequently be useful to laundryowners if they cultivate it properly. It is actually as close as the nearest telephone. For years the telephone operating companies which are members of the Bell System have maintained personnel departments which have been held up as models to all industry. Their techniques for assuring a constant flow of personnel of every type into their organization have been outstanding.

Personnel managers of telephone operating companies are usually very conscious of the public relations aspect of their jobs and some laundryowners have been very successful in soliciting their cooperation. For over a year the personnel manager of the telephone office in Joliet has been referring applicants which he cannot hire to the AIL. Some of these people have turned out to be good potential workers.

If this is true of the local telephone companies it is worth trying with the personnel departments of other local concerns—particularly the gas and electric utility companies. It stresses the importance of having one person in your organization specifically assigned to the job, either part-time or full-time, of recruiting workers. And it emphasizes that part of his time should be devoted to cultivating the friendship of other personnel managers in your community.

In almost every laundry we have visited we found at

least one part-time worker who went to school part of the day. Has it ever occurred to you that the local school authorities are in an excellent position to help you recruit employees? Most schools now have a person whose responsibility it is to investigate reasons why students are leaving school and what they are going to do with their time. He may be known as the placement officer or the terminating officer. Whatever his title, chances are he will be more than willing to help you if you let him know what your requirements are and the conditions under which you propose to hire present students as part-time help or ex-students on a full-time basis.

In contacting schools it is wise not to restrict your activity to high schools. Think of the other institutions in your locality which offer potential help. Schools for deaf-mutes may offer exceptional prospects. These unfortunate people frequently have powers of concentration which far exceed the norm and their reputation for a high standard of morale and spirit of cooperation should make them highly desirable employees in a laundry under normal operating conditions—not during periods of a short labor market alone.

Physically handicapped workers

Other physically handicapped people can frequently fit into the laundry employment picture with success. Many industries have successfully employed amputees and other disabled veterans for the past few years. There are thousands of such veterans seeking and gaining employment in American industry today and laundries should not deprive themselves of their full share from this fertile field of prospects. Local offices of your state employment service will be of help in contacting these people.

Route salesmen have been enlisted in the recruiting drive in many laundries. Because they are in daily contact with your customers their activities in this respect can contribute considerably toward building and maintaining sound public relations with your customers in addition to ferreting out suitable workers. Housewives feel flattered when route salesmen consult them about management problems, including the hiring of workers. Because you are taking them into your confidence, you'll be surprised how helpful they will try to be. Many good prospects are uncovered in this way.

Route salesmen, especially if paid on a commission basis, expect to be offered an additional incentive for this extra effort. If incentives are offered productive employees for bringing potential workers to the plant there appears to be no reason why route salesmen should not be included in the same, or a similar, plan.

In the case of both productive employees and route salesmen the use of an applicant referral card has proved useful in many plants. The printed card includes space for the sponsor to write in the name of the applicant and a space in which to write his own signature. With this personal card of introduction to the plant management from a present employee the applicant knows she will receive a ready reception and she goes to the plant with much less hesitancy than if it were a "cold" call.

The card will serve two other important functions. It will re-emphasize to your present employees that you want their help in finding new workers and will seriously consider employing applicants they refer to you. And it has the added psychological merit of making your people feel a part of your "management team." Another example of employees responding enthusiastically if management shows sincerity when appealing for their aid. ●

SELECTION



EVEN BEFORE A WORKER IS HIRED she may form a lasting impression of your plant. Difficulty in locating the office, an uncomfortable wait to be interviewed, a preliminary interviewer who is not a good representative of you or your people—any or all of these factors may create a bad impression that is difficult, if not impossible, to erase. Therefore, it is extremely important that the interview take place under favorable conditions.

In the small plant it is more than likely that the owner himself will do the interviewing. If not, care should be exercised in choosing a person who will receive the applicant pleasantly and put her at ease instantly. As much thought should be given to selecting and training this person in the skill of conducting interviews as you would devote to selecting a route supervisor.

The applicant should not be kept waiting. If she has appeared promptly for an appointment the least you can do is to see that she is received promptly.

The interview should be conducted in private. Most people, especially women, feel that an application for a job is a very personal matter and they are frequently as nervous on such an occasion as if they were in their doctor's office. If the interview is conducted in a quiet, clean and comfortable room, where confidence can be maintained, the applicant will be put at ease.

Interruptions from intruders should not be allowed to mar an interview. It is well worth your effort to plan other activities so that applicant interviewing can be conducted without interruption. Do not run off and leave an applicant alone with her thoughts for interminable periods of time during an interview. It only increases her nervousness and gives her further opportunity to brood over scores of imaginary problems.

Frequently the applicant's first obstacle to feeling at ease is the application blank, which seems a formidable inquisition rather than a friendly inquiry. Help should be given in filling out the blank and, in many cases, the blanks themselves can be simplified.

In those plants where the services of a personnel consulting firm are retained it is possible to reduce the time spent interviewing applicants to a minimum by the use of a psychological test. Such a test screens out all those who are maladjusted to the point where they are psychologically unemployable. These persons are undesirable as employees because they are emotionally unstable and would only create more problems within the organization than they would ever help solve. The use of such a psychological test at the beginning of the interview takes only two or three minutes, including the scoring. It eliminates the necessity for an undesirable applicant filling out an application blank.

In considering tests to screen out undesirable applicants the whole broad subject of psychological testing should be considered.

It is not necessary for you to attempt to learn even the elements of the modern language of psychology. However, a clear understanding of the meaning of two words the psychologists use, and the distinction between them, is necessary if you are to employ the services of a personnel consulting firm intelligently. Those words are *aptitude* and *ability*.

As used by psychologists, *aptitude* means potential as distinguished from developed ability; capacity for learning a certain performance or kind of work. *Ability* means proficiency in any kind of work or activity. Thus, it may be seen that aptitude, being potential and not necessarily realized, may or may not have been developed by training or experience in a person; whereas ability may be a proficiency or a skill developed in a person who lacks aptitude.

Assistance from psychologists

If you are interested in testing your people exclusively for their aptitudes you need only seek a personnel consulting firm which includes *industrial* psychologists on its staff. If, however, you accept the view that personality, too, should be a part of your testing program you should choose a consulting firm which includes *clinical* psychologists on its staff as well.

This distinction is important and is growing more so every day as the strains and stresses of present-day living increase. The clinical psychologist is playing a bigger role as consultant to industry daily and management gains by the experience as it learns that happy, well-adjusted workers are the most productive workers.

Of course, you will want to satisfy yourself with regard to other questions in selecting a consulting firm. It is important that the firm have a good sound businessman at the top—a man who knows the problems of business from actual experience and from management's point of view. If his working experience has been confined to psychology exclusively he may not be close enough to management problems to be of practical help to you. Then ask them if they have had experience working with other laundries. That certainly would be to your advantage. If so, ask for a list of references and be sure to check them before retaining the firm.

Where are these firms located? In most of the larger cities in the country. You can get a list of them by

writing to the American Psychological Association, 1515 Massachusetts Avenue, Washington 5, D. C. Ask for a copy of the *Directory of the Industrial and Business Division of the A. P. A.*

If the applicant does not achieve the required rating on the psychological screening test, or is disqualified by facts disclosed on the application blank, she should be given a brief "courtesy" interview and ushered to the door. At this point much goodwill for the plant can be created by the manner in which she is informed that she will not be hired. Inasmuch as your business is a service business you should be particularly aware of the public relations aspect of every personal contact. Interviewing job applicants is no exception to this rule. Send the unacceptable applicant away feeling good toward you.

If she has achieved the required rating on the screening test the application blank should be checked for neatness of handwriting and spelling (if these relate to the job), possible inaccuracies or contradictions, number of job changes over a period of five years or less, gaps in the work record and admitted physical disabilities which would limit her activity to certain specific jobs.

Test score and facts having proved no barrier, the applicant is now ready for a qualifying or pre-test interview. This interview has two objectives:

1. To explain the nature of the job.

2. To elicit additional facts about the applicant and generally appraise her qualifications to determine if she is to be given further consideration.

At this point it is important to remember the distinction between what is termed a directive interview and a non-directive interview.

A directive interview is just what the name implies—one in which you direct the interview. You ask questions and the applicant supplies the answers. As the Personnel Laboratory of New York points out in their *Manual on Employment Interviewing*, "During a direct interview . . . when you start asking the applicant questions you make it plain that you want certain information and that, whether or not you hire him will depend on his giving you the right answers. You can't blame him if he withholds information you didn't ask for . . ."

"The non-directive interview can be infinitely more productive because the applicant is more at ease. His guard is down. No quizzing. No third degree. Just a friendly chat. He does the talking—you do the listening. All you have to do to keep him going is to chime in



Aptitude for a job such as marking, which requires finger dexterity, may be tested through use of the Minnesota Rate of Manipulation Test

now and then with, 'I see' or 'I can understand how you feel about that.'"

The non-directive interview offers many advantages over the directive type. By making no apparent effort to direct the conversation, you encourage the applicant to talk about what is important to him. In so doing, you can skillfully learn enough to either qualify or disqualify him without putting a single question.

As pointed out by a speaker at a recent AIL young men's conference, the interview is the most important part of the job of selecting workers and, in order for it to be most effective, you should let the applicant do the talking. He put it in one simple statement—"If you do more than 20 percent of the talking, then you're being interviewed and not doing the interviewing."

If the applicant is under consideration for a particular job describe it early in the interview. Go into such details as the following:

1. Nature of the job, duties and responsibilities.
2. Wage or salary and working hours.
3. Opportunities for advancement, if any.

This should be done in a very frank and open manner. Even in a tight labor market it is never wise to "oversell" the applicant on the advantages of the job. You will only wind up with a worker who soon becomes disgruntled because conditions have not turned out to be as rosy for him as you pictured during his first meeting with you.

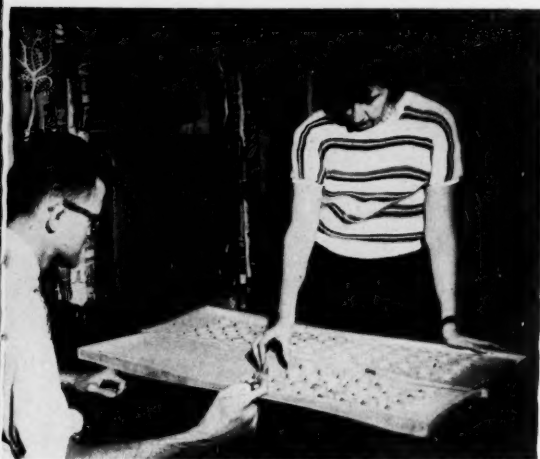
If the applicant has not eliminated himself at the end of the interview it is time to summarize your findings. It is well to have a printed or mimeographed form for this purpose. Then, regardless of whether you do the interviewing or someone does it for you, a uniform evaluation of the interview can be made in terms of your standards. On this form the interviewer should be required to check off under such headings as "satisfactory," "unsatisfactory" and "questionable" these factors: age (for specific job), appearance, speech, manner, health background, work experience, education, marital status and financial responsibility.

When this has been done it is time to tell the applicant that he is or is not acceptable. If the latter, be sure to explain carefully *why* he is not eligible. If the former, explain to him the next step.

If the next step is aptitude testing a preliminary



"I know he's your nephew, dear, but I just can't see him as a good sales manager."



Photos courtesy of The Personnel Laboratory (New York City)

Another variation of the Minnesota test is used in measuring gross arm movement, necessary in operating flatwork ironers and presses

explanation is most important because experience in other laundries has clearly demonstrated that most applicants are as easily upset by the thought of such tests as they are by any of the other phases of the selection process.

There are many aptitude tests used by laundries today. Some are more valuable than others. The important thing is to consult with a professional firm in selecting a set for your purposes. The consultants will want to come into your plant and survey the job functions before making its recommendation. In this way you can be assured that the right set of tests is devised for testing applicants for your specific jobs.

An excellent example of a postwar aptitude testing program is the one adopted by Johnson & Johnson, manufacturers of surgical dressings. It is cited merely to demonstrate that no one test can be used for all purposes. A complete testing job requires the application of a series of tests and the proper evaluation of the entire set. The correct weight must be given to each test in relation to its bearing on a particular job.

A group of experts studied all the jobs at Johnson & Johnson carefully and came to the conclusion that six major factors contributed to success or failure on all jobs in varying degrees. Applicants are now tested for all factors. They are:

Adaptability, which is defined in terms of the mental requirements for the job. It is evidenced when there are demands for learning, adaption to new situations and assumption of responsibility.

Stability, evenness of temperament or poise, patience, freedom from or control of fears, readiness to cooperate, i.e., teamwork.

Spatial relations, the ability to manipulate mentally two or three dimensional changes in space, or to recall spatial patterns and relate these to muscular movements.

Finger dexterity, precision, speed, versatility and integration of finger and thumb movement.

Speed of reaction, the interval between stimulus and response.

Rhythm, the ability to swing into the pulse or beat of a job.

Remember to make it very clear to the applicant that you are not testing him to find out if he is a moron

or in any way abnormal. This is very important, particularly in explaining the purpose of the adaptability and stability tests. If you have given him a prescreening test you are reasonably sure that you are not dealing with a neurotic individual at this stage of the process and you need not fear explaining the full purpose of these tests provided you do it with tact and understanding.

Are these tests worth the time and expense involved? Johnson & Johnson certainly thinks so. They started their program in 1945. The year before their rate of turnover among workers was 4.75 percent. In 1945 the rate had dropped to 2.98 percent. This represents a decrease of 37 percent in turnover shortly after the testing program had been put into effect. In 1946 the turnover rate was 3.33 percent; in 1947, 3.03 percent. In 1948 it had dropped again to 2.47 percent and, in 1949, it was 1.6 percent.

It is the reduction in the rate of turnover that is the crucial test of such a program. It indicates the reduction in the relative cost of constantly losing and replacing workers. Whether the turnover in your plant is high or low compared with the rate in other laundries may depend to a great degree on conditions which you cannot control. However, the percentage by which this rate can be lowered is the figure which demonstrates the value of an aptitude testing program.

The foregoing tests are given to people seeking jobs in the production and clerical departments. Somewhat more extensive tests have been devised for people seeking positions as supervisors, route salesmen or executives.

When the applicant has completed the aptitude tests they must be scored and interpreted. There may be some variation in the procedure followed at this point depending on the arrangement worked out with the personnel consultants. A common procedure is for you, or the person you designate, to score and interpret the tests of all applicants for production jobs. Under this arrangement all tests given to applicants for the higher level positions, together with the application blank and summary of the interview, are sent to the consultant's office for scoring and interpretation.

Having achieved satisfactory scores on the tests the applicant is ready to be hired except for one final step. He should be acceptable to the man under whose direct supervision he is to work. He is then ready for a period of orientation and training. ●



"... and he never misses a day!"



ORIENTATION

THE FIRST DAY AT WORK is hard on everyone. It's hard on the new employee and it's hard on the people who must help him fit into the organization.

Everything that can be done to make it as easy as possible for the new worker should be tried—not because a new worker should be pampered or spoiled. These things should be done because they help keep workers once you've got them. They help keep production levels high, too. More frequently than not, a worker who gets off to a bad start never does get put on the right track—even under the best supervision and with the best training program. He develops bad working habits which he apparently cannot shake off.

For these reasons the introductory period of the new worker is a critical one. Personnel experts call it the period of "orientation." During this period friendly relations between the worker and the company must be established. In the process the worker should be given the information he needs about the company and the job for which he has been hired.

One cardinal sin which should never be committed in this introductory period is that of letting the new worker shift for himself aimlessly about the plant with nothing to do. At the time he is hired he should be instructed exactly when and where to report on his first day of employment. When that time arrives a representative of the plant should promptly greet him in a friendly manner with a planned program of action ready for execution. This program should include a complete explanation of the following points:

- Group insurance plan
- Hospitalization plan
- Retirement plan
- General plant rules
- Vacation plan
- Paid holidays
- Operation, use and importance of the time clock and card
- Hours of work

Attendance and punctuality, including explanation of how and to whom to report if absence is unavoidable and the penalty for repeated, unexcused absences

Details of pay, including base rate, incentive pay and shift premiums, and the time and place of payment

At this time the signed forms for withholding tax, savings bonds, and insurance applications are reviewed and signed

Safety rules

Customs for eating lunch, location of cafeteria (if you operate one)

Rest periods and smoking rules

Recreation programs, employee clubs or associations
Company credit union, if one is operated
Care of uniforms, if supplied

Following this discussion the employee should be encouraged to ask questions. It should be kept in mind, however, that the amount of information an employee can absorb at any one time and remember is limited. With this thought in mind many laundries have prepared a small leaflet, or booklet, outlining this information in detail. The booklet is given to the employee to take home and read over in his spare time. This tends to decrease the problems arising from employees who continually violate plant policies or customs and plead innocence due to ignorance or misunderstanding.

Elite's welcome

The booklet need not be elaborate or expensive. Elite Laundry, with plants in Washington, D. C., Baltimore, Md., and Philadelphia, Pa., has a very simple four-page leaflet titled "Welcome To Elite" which serves this purpose very well. Listen to the message from the management found on page one:

"Some folks find it easy to get acquainted quickly—to others, the job of becoming familiar with strangers and a new place to work takes a longer time. We hope that this greeting, as a new employee of Elite, will help you to know us better and quicker..."



"I realize it's your responsibility to orient new employees, Mr. Bennett, but I don't quite understand your theory on the 'need for rhythm in marking'!"

Welcome To *Elite*

Elite was started about 1895 and through the past years has grown to its present size. Elite does the washing and dry cleaning for many thousands of people in Baltimore and also supplies many families with fresh, clean diapers for their babies. You will find Elite's first objective is to provide these customers with the highest quality of work and the best service that it is possible to give. This is the principle upon which this business was founded and upon which it has grown. To achieve this objective means that everyone of us—management, production and sales—takes pride in our job and accepts a full share of responsibility for keeping the confidence and friendship of our customers. This means we have only one boss—our customers.

The next responsibility of Elite is to its employees and we are constantly trying to make this a better place in which to work. Won't you help? Let's keep all surroundings as clean as possible and we will constantly try to furnish the best equipment to make working easier.

We are glad to have you here at Elite.

G. Y. KLINEFELTER, President

The Elite Laundry prepared this booklet to tell new employees what they can expect of their employer, and what the plant expects of them

Your Company's Practices & Policies

HOURS

At Elite we work a 5½ day week. When the work is up to date, the production departments do not work on Saturday. Working hours are from 8:00 A. M. until 5:15 P. M. or earlier with a lunch period from 11:45 to 12:30.

In the Sales Department, Branch Stores and Clerical Departments, the working hours and lunch periods may vary according to the department.

When you find it impossible to report for work, we request that you or someone in your family, notify us by phone at the earliest possible time.

REST PERIODS

All production employees are given a ten minute rest period at 9:50 A. M. and 2:40 P. M. each day except Saturday. Please do not leave the building during your rest period.

VACATIONS

The employee who has been at Elite the longest gets the first choice of vacation time in each department. You may take your vacation between April 1st and October 1st. If you have been here for six months before October 1st, you will receive three days vacation with pay. When you have been at Elite for one year you will receive one week's vacation with pay.

SENIORITY

When positions are open, they will be posted at the bulletin boards. Anyone may apply for these positions at the employment office. The positions will be filled by the employee who has been with Elite the longest and has the highest aptitude test score.

EMPLOYEE COMPLAINTS

Please talk with your supervisor about any complaint or problem which you have. If he cannot help you, we suggest that you ask the Personnel office to help to present your problem to the Division Manager or the General Manager, if necessary.

Friendly, direct and to the point—this message greets each new employee.

Pages three and four of the leaflet contain a complete outline of the company's "practices and policies." Note that they are not called "rules." There is something obnoxious about a long set of "rules" laid down by management for arbitrary compliance. But when the management has "practices and policies" for making the plant a better place in which to work and asks "Won't you help?"—as Elite does—the employee subconsciously tries to comply.

When the new worker is escorted to his department—and he should be "escorted," not told to find the place by himself—he should be introduced to his supervisor on a first-name basis. This should not be done until the supervisor has the time to receive him, introduce him to his fellow workers and acquaint him with the surroundings in which he is to work. The supervisor should impress upon the new man that he and his fellow workers are glad to have him in their department, that he will like his job and they will all try to make the first few days as pleasant for him as possible.

The supervisor, or another person designated as an instructor, then starts the new man on his period of instruction. He shows the new man what to do and how to do it. He also tells him why the job is done that way. The supervisor periodically checks the employee

throughout the day and corrects any errors which he may commit.

At lunchtime the new man should be taken to lunch by his supervisor to further foster the feeling of friendliness. In many plants it is a custom for the laundry owner or company president to ask the employee to join him for lunch. In many plants which operate cafeterias it is a custom to have every new employee a guest of the company at lunch on his first working day. Either of these plans goes a long way toward creating the desired atmosphere of congeniality.

Every good supervisor will tell you that he makes it a point never to allow a new worker to go home at the end of the first day without seeking him out, discussing the job with him and letting him ask any questions which he has on his mind. Do your supervisors do this?

So much for the first day.

How long should this introductory period continue? How important is it anyway?

The American Institute of Laundering finds that if they can keep an employee for 90 days they can usually keep him for a number of years.

Listen to the experience of a large watch manufacturer on this point. A check on their turnover records showed that 40 percent of all those leaving the company leave within the first 14 to 18 weeks of employment. This

group was broken down into those who leave during the early part of the training and those in the "plateau" period who leave after learning fundamentals but before developing speed.

It was found that those in the first group leave because of:

1. Lack of appreciation of what the company offers
2. Difficulty in adjusting to the job
3. Insufficient appreciation at the time of hiring of what the job entails
4. Lack of self-confidence in their ability to do the job
5. Desire to make money faster

Those leaving after they have learned the fundamentals but before they have acquired speed were found to have left primarily because:

1. They were discouraged because of the time it takes to develop skill
2. They felt they could not become as proficient as the workmen next to them
3. They feared they would never make the money they expected when they were employed

As a result of this survey the company decided that their introductory period was neither long enough nor effective enough. The whole program was overhauled and a careful system of continually checking up on its effectiveness was instituted.

Think a few minutes about each item on the above lists. It is granted that the degree of skill required of a watchmaker is much greater than that required of a laundry worker. But note that the reason at the top of the first list is "lack of appreciation of what the company offers." In other words, the workers weren't properly informed of the advantages which the plant already offered. They remained "in the dark" about these advantages for several weeks after they were on the job. They actually quit their jobs without knowing about these advantages.

Then look at the first reason on the second list. "They were discouraged . . ." They weren't convinced that they couldn't develop the required skills. They were simply discouraged. They weren't being encouraged by the people whose responsibility it was to encourage them!

Basic to the development of good morale among employees is the orientation of new workers. Their first impressions of the company they are to work for are important. It is desirable that they know about the company, its policies, its products. They should understand, too, the company rules and customs before they start to work. They should know what the company expects of them and what they may expect of the company. They should understand about their hours, their wage rates, their opportunities for advancement; and they should learn about the various employee benefits and facilities. If they can start off on their work feeling that they are a part of the organization, they will be happier and better-adjusted employees.

The aid of older employees is needed to help the new employee adjust himself to new surroundings. In some companies an older employee is designated as a new employee's sponsor for a week or so after employment to help him feel someone takes a special interest in him.

A new employee is usually ill at ease, and the supervisor's first job is to make him feel at home. To do this he must show a sincere interest in the new worker and must take time enough to give him the preliminary information he needs.

This matter of discouragement is one which you should be prepared for. When such periods occur, as they invariably do, the worker should once again be reminded of the advantages of working for the company. This should be done in the same friendly manner as on the first day he reported.

When a worker first learns a job but has not acquired skill it is only normal for him to become discouraged. Most all of your present successful workers have gone through the same period of doubt and this should be pointed out tactfully to the new man. It is one of the differences between a new worker and a skilled one. The supervisor should be prepared to meet the situation before it arises so he won't lose a new worker needlessly.

Almost every one of the reasons listed on the above two lists can be overcome in the worker's mind in time to keep him on the payroll provided you have taught your supervisors to anticipate these reasons and be prepared to tactfully meet them.

This clearly indicates that the introductory or "orientation" period for new workers, like all other phases of a sound personnel program, is not a one-day proposition. While no definite time limit can be placed on the length of this phase which would apply to all new workers in all laundries, it should be emphasized to all of your supervisory personnel that it may be a matter of weeks in the case of some individuals before they can be safely considered seasoned workers.

This is not a matter of pampering your workers. Smart supervisors can spot chronic worriers a mile away but, until you have confidence in a supervisor's judgment in this respect, continue to caution him in handling such cases. That's smart management. ●



"We're glad to extend the privilege of doing employees' laundry, but lately it appears you've developed a route all your own, Miss Fleagle."

TRAINING



TRAINING SHOULD NOT BE CONFINED to new workers alone. *Everyone in the plant needs training.* The soundest training program is a long-term management project which is constantly in operation—training new workers, to be sure, but also training experienced workers whenever changes are made in methods of operation, equipment, layout of equipment, or when a worker is transferred from one department to another. It even includes the training of supervisors in the training of others!

Newly hired workers who have had experience in other laundries need training just as much as anyone else. They may have developed bad work habits in other plants. In order for your plant to function smoothly you want every worker performing the same job to do it the same way—*your way*. That's the only way standards of performance and quality can be set up and maintained month in and month out. It's also the best way to keep friction between workers, and between workers and management, at a minimum because it reduces the margin for misunderstanding as to who should do what, and how it should be done.

As with any other management function, a sound training program requires plenty of planning long before any action is taken. In doing this planning your supervisory employees and other key workers should participate. In this way you are assured that no particular details are overlooked. Furthermore, you are going to depend on these people to execute the plan

once it is formulated and the best way to get their complete cooperation is to seek their advice in the formative stages.

During the war the Training Within Industry Branch of the War Manpower Commission published a job instructor training program which was put to the test of practical application in many plants with success. The American Institute of Laundering published a special report called "How To Train Laundry Employees On The Job" which was adapted from the War Manpower Commission's publication. This report (Special Report No. 126) can be just as helpful today as it was when it was first published. If you received a copy and used it then, it would be no waste of time to dust it off and check it against your present procedures. If you don't have a copy, it is suggested that you secure one before completing a plan or putting one into action.

Training plan objectives

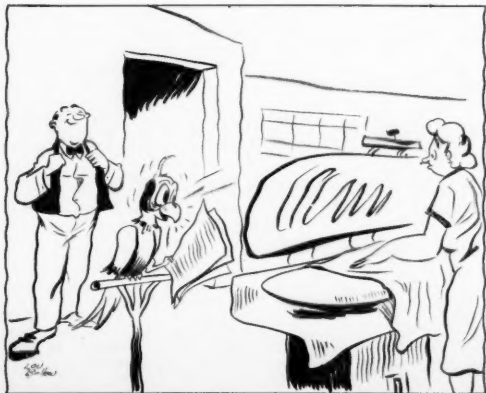
Your plan should have two objectives:

1. **To free yourself of all "troubleshooting"** in the plant so you can devote your time and energy to planning for the future of your business. Every time you go into the plant on a troubleshooting expedition it is because someone in the plant doesn't know how to do his job correctly. Training should eliminate this.

2. **To reduce to a minimum the turnover of workers** by developing the feeling among each employee that he knows exactly what is expected of him, how it should be done and, in doing it, how it can prepare him for assuming additional responsibilities.

Establishing a timetable is the first logical step in setting up a program. Think in terms of how long it will take to get a worker adequately trained for a specific job so that he can do it as well as you want him to do it. This timetable should not be looked upon as a speed-up plan by which you can extract the last ounce of effort out of every employee. It should be established for the purpose of giving everyone a real chance to develop the required amount of skill on the job, according to average capabilities, in a reasonable length of time. By establishing a timetable for each training job you know what results you can reasonably expect of your program and you can check up on it accordingly.

Before anyone can be trained to do a job the trainers must know exactly how it should be done, too. That, you say, is elementary—and so it is. But you would be surprised how many laundries don't have a definite plan of procedure for doing every job in the plant. Yet such



job descriptions are the most important part of planning a training program. Too often supervisors "think they know" the job. Many do know it so well that they perform many operations mechanically and do not get the idea across to the learner.

Employees cannot learn unless every step and detail is presented in a clear, concise manner. The only way to provide for this is by drawing up a written job description for every job in the plant.

The job description should be just what the name implies—a description of all the main steps and important key points in performing a job. It should be simple and brief. If it contains more than eight or nine steps it is possible that it may contain too much information for a new worker to absorb at one time. In such a case, break the complete description down into sections and use only one section at a time.

A complete job description, however, should include every step, no matter how long it is, and should be posted at the work station for the constant guidance of experienced workers. In this way, supervisor and worker can refer to it together in discussing any questions of procedure or quality which arise.

The use of job descriptions in training new people eliminates reliance on the trainer's memory as to how a job should be done and it insures against the bad practice of jumping around from one step to another.

Before starting to train a worker the right tools, equipment and materials should be ready. Also, the workplace should be arranged as you want the learner to use and maintain it. In both instances have it clearly understood by all trainers that you will not tolerate their setting bad examples by fumbling around for tools or instructing a worker in a messy workplace.

Pilgrim's system

In setting up their training program, Pilgrim Laundry, Boston, Mass., concentrated on these fundamentals:

1. To hire inexperienced people and train them in the Pilgrim way of doing things.
2. To make promotions from within the organization whenever possible.
3. To teach everyone several different jobs.

All supervisors or department heads from plant, sales and office took the Training Within Industry courses. This was supplemented by outside instructors who were expert teachers and by having these men attend AIL short courses at Joliet and courses in motion study, job



"John, the conveyor is for easing the workflow, not the worker!"

evaluation, textile fibers, etc., at night school. There are five of these men. Each one was promoted from the route sales department. This has helped them appreciate the sales as well as the production point of view.

Pilgrim feels that the training of managers, superintendents and supervisors is important because they are the ones who are responsible for the training of the working forces. They are the ones who decide, with the approval of top management, what is to be taught, how it is to be taught, and by whom it is to be taught.

When they had occasion to change completely their marking and sorting room procedure they set up a complete demonstration booth. Then they analyzed, step by step, just how the new job was to be performed and wrote it out in detail. They called this analysis "New Instructions for Markers" and made enough copies for everyone concerned.

They then held a meeting of all marking room personnel and carefully went over the instruction sheet, step by step. A copy was posted at each workplace in the department and each worker was given a copy to take home for study.

Each operator was given detailed instruction in the demonstration booth and, when the changeover was made, 10 operators picked up the new method and carried on with surprisingly little difficulty.

"Just think for a moment what happened here," said William Saville in describing the experience. "First, the production manager, the plant superintendent and the department foreman sat down and analyzed the job. Using motion study principles, they set up the work-space, worked out the actual motions and wrote down the descriptions, attempting to cover in detail all the complicated situations that can arise in a marking room which handles all types of customer bundles.

"They went over their efforts with two or three of the more experienced workers in the department. These people found many points that had not been covered. Try-outs in the demonstration booth brought out other omissions and changes. Finally, the combined efforts produced a workable set of instructions. In fact, the instructions were so practical that, except for a few corrections from time to time to keep up with changing conditions, they are still in use today.

"As we thought about it afterwards, it seemed that the carefully prepared, detailed instructions were the most important single factor in the ease of changeover. From that grew the conviction that people can be suc-



"It's company policy to train each new employee, Miss Brown. Your training will continue even if you stop bringing me gifts each morning!"

cessfully taught new ways of doing things, provided sufficient time and effort is used in deciding just what is to be taught, how it is to be taught and then laying it out in such detail that there can be no misunderstanding.

"The point of this is that the management and the workers themselves sat down and thought it out in advance. To me, from a management standpoint, it is much like the operation of a budget—the more people that have a part in its preparation the better, because it forces them all to think and then their performance is measured by, and compared with, their thinking.

"It followed, quite naturally, that if a major change-over could be accomplished so easily, then this would be a good line to follow in the training of our people generally. This has been done, so that today we have complete job descriptions of all plant jobs, with the exceptions of wearing apparel ironing, extracting, and some specialty jobs.

"These job descriptions are prominently posted at the workplaces. They serve two principal purposes: (1) to train new people when they first come on the job; and (2) to maintain work methods by giving support to the department heads in the correction of careless work habits."

The value of visual training aids has been recognized for a number of years. Experience during the war emphasized the effectiveness of this type of training tool, and laundries have been quick to turn it to good advantage.

Whether they are photographs of actual demonstrations, drawings, or cartoons in a humorous vein, illustrations compel attention and serve to dramatize important points in workers' minds. In some plants they are inserted in looseleaf binders and used as manuals in training new workers. In others they are posted at

A number of years ago, soon after I first became supervisor, in visiting another plant, I was much impressed by the way several of the girls were handling their jobs. I asked the plant manager, "Where do you hire such help?" He was a much older man than I was and he replied with a smile, "We don't hire them. We train them."

That answer made a deep impression on me and I have consistently tried to use it as a guide for my part in helping to build an organization.

WILLIAM SAVILLE

Pilgrim Laundry Company
Boston, Mass.

the workplace to serve as constant reminders of correct procedures.

Shown is one of the cartoons in the series in use at Dates Laundry Service, Kenmore, N. Y. These illustrations were prepared by a local cartoonist for the laundry and are excellent examples of the kind of posters that can be produced at a minimum of expense. Maybe your plant has some "hidden talent" which could be put to good use in this way. If you don't know, why not run an informal contest to find out? A lot of employee goodwill could result.

Let's assume that you are going to train a worker in a new job. It makes no difference whether she is a new employee or whether she is an experienced worker who has been given a new assignment. There are some very important fundamentals which should be observed in training both.

Training fundamentals

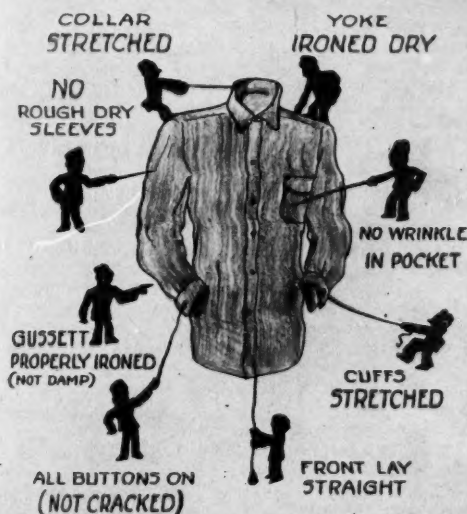
Find out what the learner already knows about the job. Then point out the things about her previous job that will be helpful on this one. Always keep her experience in mind for the remainder of the training period. For instance, if she learned the knack of breaking string when wrapping for a department store it would be a waste of time for you to train her on this operation for wrapping in your plant.

Be sure to get the learner interested in the job by explaining its importance to the overall laundry operation. Every job, no matter how small, is important for one or more reasons. Just because the trainer has been around the plant so long that he has a clear picture of the entire operation is no reason for his failure to explain the importance of even the smallest job. If he doesn't do this he is not a good trainer.

The importance of the laundry as a service industry—an industry that specializes in textile maintenance and reaches out into scores of homes in the community should be stressed in the case of new workers. The care with which she handles other people's personal property should be emphasized. Most of this information should have been given to the worker at the time of employment but it is never time wasted to re-emphasize it frequently.

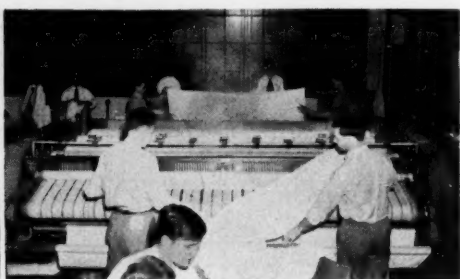
Place the learner in a position where she will be able to see everything you do. Be sure she is near enough to hear everything you say. In the case of nearby noises, speak loudly. Remember, a new operator may not be accustomed to such noise. Above all, be sure you retain her undivided attention the whole time. This will not be possible if you fool around with a pencil or some

Have Instructions been followed?



Check for Spots and Stains!

This poster used at Dates Laundry Service helps to keep shirt operators alert to the plant's quality requirements



"Capsule Courses" in Joliet

Six intensive one-week courses are being offered at AIL headquarters in Joliet, Ill., this fall. AIL states that the courses are designed for any plant employee, man or woman, from the top on down.

Courses to be offered are: Laundry Production, Sept. 15-20; Washroom Methods, Sept. 22-27; Lau-

dry Salesmanship, Oct. 20-25; Laundry Sales Management, Oct. 27-Nov. 1; Laundry Bookkeeping, Nov. 10-15; and Laundry Office Methods, Nov. 17-22. Tuition is \$80 for each course, \$150 for two, less five percent for check with application. This fee covers all supplies and materials.

other object while talking to her. Her attention will instinctively be focused on the pencil—not on the subject of the training.

On the first demonstration tell her how to do the job. Then *show* her how to do it. Explain and illustrate, step by step, according to your job description. Go slowly. Be very patient.

On the second demonstration go through the same procedure as in the first demonstration at least a second time. In addition, ask the learner various simple questions about some of the points mentioned in your first demonstration—questions beginning with why, how, what, when, where. Be patient when asking these questions and compliment the learner when she correctly answers them.

If the learner does not answer your questions satisfactorily, repeat the second demonstration *once or twice more*. If after four or five demonstrations the learner still cannot answer the questions very well, you are probably presenting too much information at one time. Or maybe you are not doing a good job of teaching. Two or three demonstrations are usually enough.

Here are some very important things not to do:

Don't overlook or skip steps or points listed on the job description. Remembering them later confuses the learner. Take each step in its proper order.

Don't leave the learner to take care of something else until your training job is done.

Don't use words or phrases which only have meaning to people in the laundry industry when teaching a new worker; for example, "arching" collars, "press buck," "go-back," "shaker," "washwheel." If such words are used be sure to explain them fully.

Don't leave anything to the learner's imagination. For example, if you are training a girl to operate a handkerchief ironer and no monogrammed handkerchiefs are available, don't just tell her that monograms should be laid in such a manner that they will be on the outside when folded. *Have a monogrammed handkerchief at hand and show her how it is done.*

Don't hesitate to answer the learner's questions. Of course, if they call for long, complicated answers not

relating to the job itself, then tactfully tell the learner that you will tell her all about it sometime but she will be better off for the present to have just the information needed to master the job at hand.

Don't allow the learner to take the job away from you. Some over-anxious or cocky learners *think* they see how a job is to be done just as soon as you have presented one or two steps. They sometimes almost push you aside in their eagerness to *show you*. *Don't let them take the job away from you*. When learners start to grasp at something, get your hand there first and let them merely tell you what they think should be done. Their chance to *do* the job will come *after* your presentation.

Don't fail to observe all safety precautions at all times. If you do not practice what you preach in this respect your plant will soon be filled with maimed employees.

After following all of the above procedures, in the sequence listed, the worker is ready to actually *do* the job under your guidance and supervision.

As she does it, step by step, be sure to check her understanding of each step by asking her questions. Ask the same questions you used in your demonstrations. If they were correct then, they are still correct. By asking them again you are causing the various steps to be emphasized once again in the learner's mind. Also, you are finding out for yourself how much the learner is really learning about the job.

Be sure to correct errors *at once*. Do not wait until the entire procedure has been completed before calling them to the learner's attention. The time to correct errors is while they are being made.

If it becomes obvious that some parts of the operation are still not clear to the learner have her repeat them over and over again and continue to question her until they are clear.

As soon as the learner's performance of the job and answers to your questions satisfy you that she understands, *have her tell and show you* how it is done. This is your real goal. When she can tell and show you how to do the job it is a good indication that she knows the

job. Remember, quick performance cannot be expected at this time. Speed will only come with constant practice. Training should be continued until *you know* that the learner knows and really understands the job.

The easiest error to make in training is to assume that the learner understands how to perform an operation merely because she has been shown how to do it. The best training program is one in which you make sure that the learner knows. This requires constant follow-up.

Point out to the learner that you feel she knows the job well enough to proceed alone for awhile. Make certain there is sufficient work at the workplace for her to practice on, explain that you have something else to do for 10 or 15 minutes and that you will come back. Ask her to save any questions which arise while you are gone until you return. Explain that such questions should not be asked of other persons in your absence because the other workers would be slowed down in their work. Then go away.

This puts the worker entirely on her own for the first time in the training period. It is during this period that she begins to develop her self-confidence. However, she won't develop it in a few minutes. It will take lots of time for her to feel completely confident.

Don't forget to come back to her in 10 or 15 minutes, as you said you would do. In helping her build self-confidence, be encouraging at all times. Correct any errors, to be sure, and restrain her on any weak points if necessary. However, do it in a pleasant, encouraging way. Be sure to compliment her on the fact that she has been a good learner before you leave her alone on the job the last time. Don't revert to informal discussions. Go away leaving her thinking about the job.

Did we say "leave her alone on the job the last time?" There should be no "last time." As pointed out above, an effective training program requires constant follow-up. Therefore, supervisors should constantly check up on workers and see how they are making out. That is the only way in which the supervisors can get ideas for improving standards of quality and methods. Don't forget that many of these ideas will come from workers who, only a short time ago, were raw and inexperienced. When that happens you will know that your training program is sound!

Most people like to have some way to measure their own performance from time to time. The story is told about a handy-man in a Midwestern town who walked into a corner drug store one morning to make a phone call. The phone was hanging on the wall and the fountain clerk overheard this conversation:

"Is this Mrs. Brown? I hear you need a handy-man at your place. Oh, you've got a handy-man. Are you satisfied with him? Oh, you are satisfied with him."

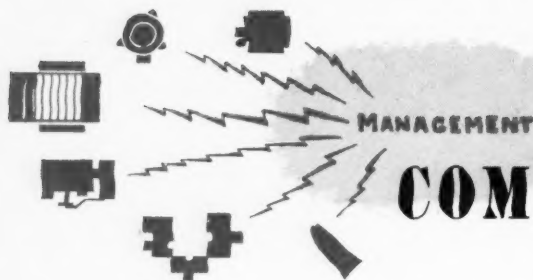
Then Mac hung up the receiver. The clerk said, "Why Mac, I thought you worked for Mrs. Brown." Mac replied, "I do." "Well," asked the clerk, "why were you calling her then?" "Just checking up on myself," said Mac, "just checking up."

You, as supervisors, like Mac, can "just check up on yourselves" once in a while by taking a personal inventory—by asking yourselves: What am I doing that encourages my employees to do better work? What am I doing that discourages my employees from doing better work?

The following self-analysis quiz, which was developed by a group of supervisors for rating their own performance, may help you to evaluate yours. ●

How Do I Rate As a Supervisor?

	Very well	Fairly well	Not very well
1. How well do I know the caliber of work performed by each of my employees?	Seldom	Sometimes	Frequently
2. How often do I show partiality or favoritism in dealing with my employees?	Whenever necessary	Sometimes	Seldom
3. How frequently do my employees feel that they can come to me with their problems?	Seldom	Sometimes	Almost always
4. How often do I fail to give my employee clear and definite instructions?	Almost always	Sometimes	Seldom
5. How often do I tell an employee <i>why</i> he is being asked to do a particular job?	Almost always	Sometimes	Seldom
6. How often do I compliment an employee for outstanding work?	Almost never	Sometimes	Frequently
7. How often do I "blow up" or lose my temper when an employee makes an error?	Very well	Fairly well	Not very well
8. How well do I understand the work performed by my employees?	Frequently	Sometimes	Seldom
9. How often do I seek the advice of my employees in planning the work?	Open-mindedly	Skeptically	Negatively
10. How do I receive suggestions from my employees?	Seldom	Sometimes	Frequently
11. How often do I reprimand an employee in the presence of other employees?	Almost always	Sometimes	Seldom
12. How often do I tell my employees in advance about changes which will affect them?	A short time	Varies	A long time
13. How long do I keep an employee waiting for a decision or for information?	Seldom	Sometimes	Frequently
14. How often do I redo the work of an employee rather than take corrective action?	Almost always	Sometimes	Seldom
15. How often do I keep my promises?	Very anxious	Apathetic	Opposed
16. How anxious am I to advance promising employees?	Frequently	Sometimes	Seldom
17. How often do I try to look at a problem from the employee's point of view?	Seldom	Sometimes	Almost always
18. How often do I attempt to shift the blame for my own errors?	Frequently	Sometimes	Seldom
19. How often do I "go to bat" for my employees?			



IF MANAGEMENT KEEPS ITS "WHY" to itself it can hardly expect its employees to sympathize with its "what" and "how." The head will obey but the heart will be elsewhere. Can you get interested in any job just because someone tells you to do it?

A man who is told only what to do may perform acceptably but he never puts the wallop back of his work that he does if he also knows why. Contrary to the widely held opinion of a few years ago, the average worker closely identifies his welfare with that of his employer. When he realizes the reasons behind management policies, and is convinced those policies are sound in terms of the future welfare of the business, he goes about the performance of his duties willingly and efficiently.

The laundryowner has the right to expect his workers to give him their full skill and conscientious care in all phases of their work, including the maintenance and improvement of quality. He also has a right to expect them to put forth a full day's effort coupled with prompt, regular and agreeable attendance at the job. But he does not have the right to expect these from his employees without giving them something, in addition to wages, in return. Order-giving and the power to discharge are tools to be used in special situations only. It may well be that the day of blind obedience—"Theirs not to reason why, theirs but to do or die"—has gone forever.

Laundryowners, like other industry managers, are daily becoming more aware that the only assets that cannot be replaced are the human ones. They are quick to realize that successful "maintenance" of those human assets, if you will, involves satisfying the craving of employees to know *why* it is necessary that things be done in a certain way.

A most important aid to management is to get down through the entire organization a clear understanding of its objectives and the method or methods by which they can be achieved. Spreading such understanding through the organization not only makes for improvement in the attainment of objectives. It improves and clarifies objectives themselves. It cannot accomplish either of these goals, however, unless it is a genuinely two-way system of communications.

This system should consist of two streams, one permeating down through the organization from above and the other, equally as effective, rising up through the organization from below. The former should combine authority with responsibility and judgment. The latter should consist of questions, facts and opinions arising out of actual experience, which exert pressure on policy formulation as they rise.

The degree to which management encourages both of these determines the extent to which it will derive full benefit from the system.

So much has recently been written and said about employee communications that the average laundryowner may feel that it is a technique that can only be developed by a corps of technical experts at an exorbitant cost. If so, it is a pity because an effective employee communications program can be set up in a small or medium size laundry at very little cost. Furthermore, the mere fact that a plant is not large indicates that an effective plan can be devised without engaging the services of a staff of experts. It is far easier to communicate effectively with a small number of workers than with a large group.

The important thing is that the plant have a system, no matter how modest or informal, that is effective in both directions.

Until you take a "sounding" you have no way of knowing how much employee resentment may actually exist in your plant. It may be strongest among those people you think you know and understand most intimately. A well conceived communications plan can go a long way toward eliminating that resentment at the source.

Also, think of the valuable ideas you may be depriving yourself of if there is no effective way in which your employees may pass them along to you.

There is no uniform program for presenting information to employees. Each laundry is individual. Its employees have different interests and different backgrounds. Experience has shown that its program should be custom-made to meet its own needs and the interests of its employees. Its purpose is to inform the workers frankly, telling them the bad news as well as the good, and telling them these facts simply but without condescension.

One source of information, or misinformation, that frequently needs attention is the plant "grapevine." Efforts to bring rumors to the light of day, to tell the truth about them, can contribute much to an employee's understanding of his company. In addition, experienced executives have found that management's door should always be open to any employee questions.

On the latter point, the president of the New York Telephone Company says, "Of chief importance, we believe, is that the company encourage employees to ask, at any time, any question about the business they may have in mind, or that may be asked them by persons outside the company."

There are any number of media which can be used effectively and inexpensively in a system of manage-

1. The supervisor should listen patiently to what his subordinate has to say before making any comment himself.

2. The supervisor should refrain from hasty disapprobation of his subordinate's conduct.

3. The supervisor should not argue with his subordinate.

4. The supervisor should not pay exclusive attention to the manifest content of the conversation.

5. The supervisor should listen, not only to what a person wants to say but also to what he does not want to say or cannot say without assistance.

ment—employee communications. They include employee publications, machinery set up to answer rumors and employees' questions, booklets and bulletins, letters to employees, employee contests, employee meetings, movies, plant tours for employees and the family day, to name only some of them.

By far the most widely used of these is the employee publication. Employees quickly get used to reading it. It is a natural channel of information.

It can be as simple from a production point of view as the mimeographed "Sunshine Shirt Tales" produced monthly at Sunshine Laundry, Salisbury, Maryland. This publication, printed on letter-size mimeograph paper, includes no illustration except for the stenciled masthead on the first page and an occasional stenciled sketch. It runs up to eight pages of personalized copy which enjoys high readership. *Shirt Tales* gives the latest word on who's getting married, who's having how many children, who's graduating from where, and who's got a new car—just personal news, plus a few jokes, and fewer messages from management, designed to help weld 169 employees together.

A somewhat more elaborate publication is the monthly "Pilgrim's Progress" published in the interest of employees at Pilgrim Laundry, Brooklyn, New York. This magazine, printed on coated book paper, nine by 12 inches in size, is illustrated with several halftone engravings. An editor and 10 contributing editors are listed in the masthead. The first three pages are usually devoted to material of interest to all employees in the plant, regardless of department. The following five pages contain news from each department under separate department headings. Each of the contributing editors is responsible for gathering and preparing the news from a single department.

The first two pages of the issue for August, 1952, carried a complete story, profusely illustrated with photographs, of the newly installed shirt finishing units. The caption under each picture listed the name of each employee who works on each unit. Page three was given over to a statement of the financial condition of the Pilgrim Aid Society for the month ending June, 1952, plus the employment anniversaries of all Pilgrim workers for the month of August. The latter included an appropriate note of welcome to 15 new employees scattered through eight different departments and the names of 23 workers who celebrated employment anniversaries of from one to 41 years.

In considering an employee publication it is important to try to ascertain what your employees want to know, i.e., what kind of material will build the greatest

amount of reader interest. If you can figure that out you can be sure that the right proportions of the right kind of material appear in each issue. If the magazine is made up accordingly each time it is published you will be assured of continuous readership. Then when you have an important message to get across, or a question of vital interest to discuss with your people, you can be reasonably sure that it will be well received by the greatest number.

What readers want

What do employees want to know about the company? A clue to the answer is to be found in the results of a reader interest survey conducted recently by Caterpillar Tractor Company of its employees magazine. Ninety-two percent of the employees take the magazine home regularly, 65 percent read practically all of it, and 85 percent said their families read it. Although readership of the whole magazine is high, there is little doubt of the relative popularity of the various types of material published in it. The following percentages of employees "always read" the following types of stories:

	Percent
Own department personals	83
Stories about the company	70
Stories about products	64
Sports	57
Hobbies	55
Editorials	51
Special columns	51
One-of-a-kind jobs	50
Other department personals	27

In order to find out what type of material will be of greatest interest to your particular group you will want to conduct a survey of your own. The list above is included here only to suggest ideas to you or the person you may designate as editor. How such surveys are conducted is described in a report entitled "Contents of 399 Employee Magazines" available from the Policyholders Service Bureau of the Metropolitan Life Insurance Company, One Madison Avenue, New York 10, New York.

Everyone likes to feel proud of his job and of the company for which he works. He likes, too, to feel "in the know." He spends a good part of his day as a part of the company. He might feel that he is more than merely a cog in a machine if he knew something about it: how it is organized, what other departments do, and how his work contributes to the whole. The employee magazine



can do much to develop a healthy, legitimate interest in the company, and should have a definite program to give employees a complete picture of the company within the period of a year or two.

Employees may be vague about how suggestions are handled or may even have the idea that somehow awards are made on the basis of favoritism instead of merit. (Incidentally, do you have a suggestion program?) An occasional reminder of how the system works may be helpful. A photographic account of the steps a suggestion takes from the time it is written and sent in until the award is given would make interesting material to your readers in such a case.

Photographs and the accompanying text could show (1) how the suggestion goes to the manager of the suggestion system, who places it with the proper suggestion committee; (2) how the committee, in turn, assigns it to a man whose work is in the particular department involved for investigation; (3) how the committee reviews the findings of the investigator and decides if the suggestion is to be adopted; and (4) presentation of the award. Emphasis is placed on the fact that no one man decides on the fate of a suggestion.

Once a year it may be appropriate to review what the suggestion system has accomplished. An issue of the magazine could have the system as its theme or a special supplement could be added. Such an issue could carry a lead article "Suggestion System Pays \$36,570 in First Year" with a chart showing how the money awarded to each suggester grew larger each quarter. In addition, on the first page could be an article, "Why Some Didn't Win," a list of the numbers of unclaimed winning suggestions and a boxed promotional article, "What's in a Suggestion?" An inside spread could be devoted to photographs of "top suggesters," those who have won either large suggestion awards or the largest number of suggestion awards, and to the departments winning the first four places on a proportional basis of the employee offering adoptable suggestions.

The last page could be headed "Here Are Fertile Fields for Your Suggestions" keyed by a slogan such as this:

"If something is:

Disagreeable but can be improved
Costly but can be done cheaper
Unsafe but can be corrected
Causing difficulty

Think!

A suggestion may correct the problem. There's always a better way."

The Reader's Digest offered \$100 prizes for the best letters from employees on "What's Wrong with Management?" The letters, some 10,000 of them, were analyzed and then tabulated on the basis of how many complaints about each specific matter were found in each 1,000 letters. The most frequent complaint (426 per 1,000) had to do with the desire to be treated like human beings, which is eloquently expressed in these three sentences from a letter by a laborer in a California plant: "Why should our reasonable petitions be ignored? Why are rules posted in terms of threat? We, too, are men of pride and self-respect."



"Now hear this . . . now hear this . . ."

Too elaborate for your plant? Maybe. But it serves to point up an example of the many stories that can be created for inclusion in an employee magazine. Stories that arouse and maintain reader interest. Stories that can elicit wholehearted participation on the part of almost every worker in the plant in a common management goal.

Such material can be aimed at achieving better attendance, improved service, accuracy, better plant housekeeping, increased production, better safety records, and training on the job. Yes, even training on the job and actual job instructions can be included.

Reminders and recognition

Just as your customers are reminded of the value of the services they buy from you, your employees may be reminded of the benefits of their jobs—of those "plus" values that make your plant a good place in which to work. In fact, main reliance for keeping your employees informed about benefit plans can be placed on the employee magazine.

For example, you or your editor should take advantage of any event affecting group insurance. Such events include the payment of dividends, the payment of claims, or an anniversary of the plan. Of these, by far the most frequently publicized is the payment of claims. Claim checks can be reproduced; the presentation of benefit checks photographed; pictures of the deceased and the amount of benefits to the beneficiaries shown; letters from widows thanking the company for the group insurance payment printed; and, at times, a compilation of the benefits paid during the month or over some other period of time.

The employee publication is a natural place to give recognition to employees for length of service, promotion, retirement, heroism, distinguished service, outstanding production, and other special services. It is also a suitable place to greet new employees, remember birthdays, and commemorate those who have died. Usually a list is published and, in some cases, a list alone is the most appropriate means. Too many or too long lists, however, become boring and there may be a danger, especially in plants where the number of long service employees is very large, that too much space may be given over to these veteran workers and to stories about presentation of service pins or medals which differ little from month to month except for changes of names.

PILGRIMS' PROGRESS
DEPARTMENT NOTES

GARAGE CAR

Joseph McLaughlin, Garages, purchased in June from the New York High School. The property prior to its return this picture of Victoria, taken at the time of her graduation.

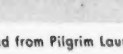
Mrs. Anne Nichols of the West Department office resigned on July 15 to return to home and marry about three years of matrimony.

It brings back to mind the days and nights of some of our most famous graduates of the past. Young Mr. James Thompson moved their business office in Garden City. He was elected to represent the new territory and business that was to be had on Long Island.

The Long Island office was started with two clerks, Miss. Thompson, daughter and Mrs. Nichols. They worked with Mr. Walter Kaye who was supervisor of Long Island territory.

The office and there are still some people who are not acquainted with the city. The office moved to 400 Madison Ave. and the company and the office in the city they could be found. Betty (Kay) Hargrave and Charlotte had been with her for some time and when they left, Mrs. Nichols was employed.

Mrs. Nichols has been a member of Pilgrim's Progress since its inception. She has been a very active member and has been a very active member of the company.



Frances McLaughlin

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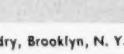
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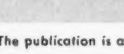
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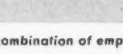
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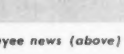
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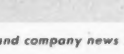
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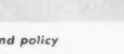
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PLATWORK DEPARTMENT

Washington, D.C. (AP) — The U.S. Supreme Court today rejected a challenge to the constitutionality of the federal law requiring the registration of all persons who are members of the Communist Party.

The court, in a 5-4 decision, held that the law did not violate the First Amendment's guarantee of freedom of speech. The majority opinion was written by Chief Justice Earl Warren.

The dissenting opinion was written by Justice Hugo Black. He argued that the law was an unconstitutional infringement on the rights of citizens to associate with whomever they please.

The case was brought by a group of citizens who claimed that the law was unconstitutional. They argued that the law was a violation of the First Amendment.

The court's decision is a significant victory for the government in its fight against communism. It also means that the law will remain in effect for the foreseeable future.

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PLATWORK DEPARTMENT

Washington, D.C. (AP) — The U.S. Supreme Court today rejected a challenge to the constitutionality of the federal law requiring the registration of all persons who are members of the Communist Party.

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It is always news when employees are chosen for some honor position in the community or win some award outside the company. Then there are the employees with hobbies of more than passing interest. Some publications which do not have a regular hobby department print occasional one or two-page feature articles about what individual employees are doing in their spare time. Occasionally, these stories are followed by general articles telling interested employees how they may acquire the skill to pursue a similar avocation.

How to handle rumors

Employees seem particularly susceptible to gossip about their jobs or their company. Rumors spread. Minor incidents grow into major disasters. Many rumors are disturbing to employee peace of mind. In addition to rumor-inspired questions, almost every employee has at one time or another a question he would like to ask about some policy, activity or plan.

To assure him that his questions are welcome, that the company has nothing to hide, and to make certain that the answer he gets is accurate, a number of companies have set up machinery to make it easy for an employee to ask questions, usually anonymously if he prefers, and to receive authentic answers. Most companies which have established such machinery use the employee magazine to answer questions of general interest.

If the inquiring employee signs his name to a question not of general interest, he receives a personal reply. If an employee who identifies himself asks a question which for one reason or another cannot be answered, he is told the reason. For example, if his question is a grievance which should be taken up in the regular grievance machinery, he is told the procedure he should follow.

When a system of answering employee questions is established, it is usually publicized in the employee magazine and employees are told how to submit their questions. Ordinarily, to facilitate the asking of such questions, a form is printed in the employee magazine or a card addressed to the company is enclosed.

The General Electric Company has what it calls a "Rumor Clinic." Employees are urged to submit to the plant manager any disturbing rumors which they may hear in the plant or outside. To facilitate the reporting of such rumors a blank is printed in each issue of the



"Look, Junior, all I want is a simple plant publication! Now answer your phone and tell that guy that you're not going to buy out the Lake-shore Press!"

Spread from Pilgrim Laundry, Brooklyn, N. Y. The publication is a combination of employee news (above) and company news and policy

weekly plant newspaper. Each rumor is answered frankly and completely by the manager in his monthly informative meetings with hourly employees, and the answers are published in full in the employee newspaper.

During the first year the plan was in operation approximately 200 rumors were submitted and answered. These included rumors about company policy, company business, wage rates, the community chest, working conditions, vacations, government bonds, and many other questions. The first rumor submitted concerned rates of pay and, during the first nine months, eight other rumors on the same subject were submitted.

Typical rumors published in one issue of the plant newspaper and the answers follow:

Rumor I have heard that there will be a big layoff. Is it true?

Facts Rumor entirely incorrect. As a matter of fact, for many weeks our employment in both the refrigerator and apparatus departments has been increasing slightly. While we will probably not increase further and may experience

a decrease in total, it will be very slight. It is true, however, that a greater number of transfers between departments is taking place and will probably continue to take place for some time. I imagine this is what prompted this rumor.

Rumor I have heard that the G. E. is hiring no more married women and that they plan on laying off the ones working at present.

Facts Rumor entirely incorrect.

There is absolutely no way by which you can determine how many similar rumors are floating around among your employees right now unless you devise a mechanism for bringing them out in the open. Your superintendents can tell you about some they picked up in the plant. But they don't hear them all. It's the ones the workers don't discuss around the plant that should worry you most. They are the ones that do the most damage.

In such a program anonymity must be guaranteed. If workers are required to sign their names to questions they will not ask the really important ones. ●



ABSENTEEISM

A GREAT DEAL OF TIME is being lost by people who talk about the time lost through absenteeism. There are two reasons for this. The first is that the talk is not backed up by any action; and the second is that the term "absenteeism" is loosely used to cover almost any failure to work full time.

When only an occasional person fails to come to work regularly, the problem may not attract much attention. When large numbers of people stay off the job, we hear of "absenteeism." But it must be remembered that it is the failure of many individuals to come to work that characterizes this common obstacle to increased production.

People who absent themselves from work either just stay away or are prevented from showing up for work.

When they stay away involuntarily, it may be because of personal illness, because transportation broke down, because of family illness, etc. These absences, due to factors the workers cannot control, do present problems to management. Because they are tangible problems, however, they usually can be handled.

A great improvement in attendance can be effected by working on these causes of involuntary absence. Laundryowners may not be able to build houses or establish bus lines, but they can present the problem to the groups which can take action. Their presentation of concrete results of inadequate housing and transportation, coupled with their support of measures to improve such conditions, will have a beneficial effect on what is done in the community.

The method of overcoming absenteeism—or, rather, of getting a full shift on the job—begins with determining the facts. This can only be done at the local level. It must be done for each plant, for each department, and each shift.

Determining the facts means that management will investigate:

1. Where absenteeism occurs.
2. When it occurs.
3. Who are absent.
4. Why each absentee failed to come to work.

Assuming an employee has sufficient income and a reasonable degree of security—is he content? No, he wants more than these. He craves satisfaction in his work. He wants the respect of his fellows, and to feel that he belongs—that he is a member of the team.

These wants are much less definite than wages and hours of work, pensions and insurance. To ignore them is to invite discontent and inefficiency. This underlying sense of frustration and restlessness is basic, and granting demands for shorter hours and higher wages will not eliminate it.

HARRY A. BULLIS
General Mills, Inc.

The "why" may bring in some factors outside the laundry, but the answers to the others usually lie squarely within the plant.

1. Where absenteeism occurs

The first step in the fact-finding procedure is to search the plant records and ascertain the rate of absenteeism by departments. If there are no records, then a record must be set up. Since absence will not be uniform throughout the plant, a spotlight is thus thrown on the places where it will be most profitable to work first.

2. When absenteeism occurs

Is the absentee rate the same every day? If it is, investigate the length of the workweek. Consider not just the total number of hours but the number of consecutive days; not just the normal work schedule, but the overtime. Are the workers allowed any days off? Are days off scheduled? Do workers know in advance? A regularly scheduled day off will usually be accepted even if it is on a day that would not have been chosen personally. But a day of one's own loses part of its value if it cannot be counted on in advance.

If the absentee rate varies from day to day, it may be well to ask: Is there a relation between absenteeism and payday? Or sports events? Or shopping days? It may be worth while to find out whether workers have trouble getting checks cashed or buying money orders. Does someone take an unscheduled day off because his regular day fell when "there's nothing to do"? And for women workers who have home responsibilities, particularly, shopping certainly cannot be ignored.

It may be necessary to find out what took place on a day when a large number of people failed to report to work. Was it during the hunting or fishing season? Was it a day when swimming seemed more attractive than making a little more money? If the weather seems to be to blame, are there any clues as to what improvement in plant working conditions might do?

3. Who are absent

No real approach to curing absenteeism will ever be made until management thinking goes beyond the stage of associating absenteeism with "10 percent of the employees." The employees have not gotten together and planned to stay away. Individual workers fail to come to work for individual reasons and the cures must be individual.

If everyone is absent to a certain degree, you are ap-

proaching the borderline cases which are hard to identify as to voluntary or involuntary absence. If hours are too long, the worker may not become ill immediately—but he can get just so tired that he doesn't feel it is worth while to come to work. Production may be improved if the hours are shortened. Management will then be in a better position to know what groups will be available and, in general, to plan production intelligently.

Usually only certain people are absent. Why each is absent must be found out.

4. Why they do not come to work

You are now ready to determine why these people do not stay on the job.

If "where" absenteeism occurs has pointed to particular departments, then, in order to answer "why," you should consider:

a. The job itself: Is the work well planned? Is equipment adequate? Is there enough work to keep everyone busy?

b. The people on the job: Are they trained? Do they understand the importance of their work?

c. The supervisor of the job: Is he a good instructor for new people? Can he plan his work? Is he getting teamwork and cooperation?

d. The place the job is done: Is the working place suitable? Is it reasonable to improve it?

e. Is each person made to feel his importance as an individual?

In analyzing "when" absenteeism occurs, the following questions may be asked:

a. Day of week: Is it on the week-end? Is it after payday? Is it the same day each week?

b. Periods of work: Is it after several consecutive days of work? Is it after overtime has been worked?

c. Rest days: Has work schedule been irregular? Is the day desirable from the employees' point of view?

"Who" are absent is the best starting point for finding facts to answer "why." It is only when you spot the individual who doesn't come to work that you can find why he did not report.

In checking who are absent, personnel data should be reviewed:

a. Service and age: Do short-service employees predominate? Does age appear to be a factor?

b. Physical condition: Does any type of employee





"No harm done, boss. It's loaded with soiled bundles."

predominate? Are both men and women included? What about sickness repenter cases?

c. Work background: What was employee's former type of work? Has a radical change taken place?

d. Home conditions: Was there any sickness in the family? Are there small children in the home? Are home duties exceptional?

The easier fact-finding steps to determine "why" people do not come to work have now been covered. A large field, however, yet remains: the general attitude of the employees toward the work, toward the plant—in other words, morale. It is necessary for management to ask itself some searching questions; and each supervisor who is faced with the problem of absenteeism in his department will need to go through the same procedure:

a. Is this a well-run plant, or department?

b. Would it seem to a worker that it would make much difference if he did not show up tomorrow?

c. Do they feel that being docked for time off evens the score?

d. Are the schedules, the regulations, the amount of work expected reasonable?

e. Do you let workers in on reasons why you do what you do, to the extent that confidential information is not thereby disclosed?

If absenteeism is general, certain steps applying to all employees may be effective. Awards and rewards sometimes bring about improvement. Such awards need not always be in the form of money. Attendance records printed in the employee magazine, pins, or competition by departments may do the trick. It would be short-sighted to place much reliance on the value of financial incentives or penalties for people who have maintained high earnings and who are voluntarily cutting their earnings through taking time off. If absenteeism seems largely to stem from increased earnings, an intensified savings bond campaign may be in order.

Scheduled vacations may serve as an incentive but it will be important to make the point that, while vacations also mean absence from the plant, work will still go on since the absences will have been anticipated and can be planned for. Vacations are usually considered a necessity; they are customary and usually regarded as a right. Do not count too heavily on their serving as a reward.

Since the line between voluntary and involuntary absence is often hard to distinguish, any attempt to enforce attendance by compulsion would probably be hard to police. And "inspirational" speeches are conspicuously ineffective.

Fostering family appreciation of the importance of the worker's job through plant visits is often effective, but this may be unwise in some establishments. Well-planned exhibits of completed production may help the worker who is familiar only with his own small part. Such devices, however, cannot be relied on to do the job.

In organized plants, the union may be helpful in getting across to employees the importance of being on the job every day. Particularly if the union shares this responsibility with management, must management make certain that it has taken all possible steps to cure causes within its own control.

Various specific techniques are being employed in many plants, but they are effective only as they fit local conditions.

Almost all the facts behind individual cases of absenteeism point to action the management and supervisors can take to reduce absenteeism. If work scheduling has been sloppy, it can be improved. It may not be possible to install an air-conditioning system, but unsatisfactory working conditions can be improved. Placement on shifts can be made realistically on the basis of whether the hour of the day will cause frequent transportation difficulties.

Adequate supervision, good working conditions, a sound personnel program—these characterize the well-run plant. Management's job is smaller and simpler if workers feel they are in a "good outfit." A plant cannot change overnight—the hastily installed "welfare" program may be viewed with suspicion. But management can improve its over-all standing by improving one phase at a time.

Some action will be beyond the realm of the plant. But if there is a clear-cut problem which cannot be solved within the plant, it still is a management responsibility to see that the problem is relayed to the place where action can be taken. And it is not enough merely to write your Congressman about inadequate housing, or to let the transportation commission know that lack of bus facilities is keeping people from work.

Absenteeism is cured by getting one person to come to work, then another, and so on. The supervisor is closest to the individual absentee. He has the best opportunity, therefore, of finding out why each absentee wasn't on the job. And you cannot get the employee to come to work until you find out why he stays away. Each case must be followed up promptly. The worker must know that management thinks this important. Chronic offenders may have to be discharged because of their effect on the group.

The supervisor will find many steps which he himself can take. He will find other conditions and causes which he must report and follow up. And, if he is honest, he will find some reasons which point definitely at how he fills his job as supervisor and, in taking steps to reduce absenteeism, he will improve his own job performance.

Like the plant management, the individual supervisor may find causes for absenteeism which he cannot handle. He must persist with presenting his case to management until he gets action that will improve conditions in his department. But he should not forget that much of the improvement must come from what he personally does in his own department. ●



MORALE

WHEN WORKERS DEMONSTRATE a confident, resolute, often buoyant, spirit of wholehearted cooperation in a common effort, their morale is said to be high. When they go about their jobs in an indifferent, sluggish manner it is said to be low.

In either case the state of workers' morale can be traced directly to the front office. If management is not concerned about morale in the plant it quickly reaches a low point from which it is very difficult, often impossible, to be raised.

One might ask, "Why worry about it? If a worker doesn't like it here he can always get a job somewhere else."

Sure he can. But forward-looking laundryowners think about it this way, "In order to earn the greatest amount of profit for the longest period of time I must do everything I can to maintain high levels of production. This requires that I get the most efficient performance from my materials. These materials are machines and people. Anything I can do to effectively handle both in such a way that production flows smoothly will increase my profit."

It logically follows that, if you make provision in your budget for the maintenance of your equipment, similar provision should be made for maintenance of morale. Because it is now recognized that workers perform at their highest peak of efficiency over the long run when their morale is highest. The two go hand-in-hand.

There are many things which laundryowners can do to inject a higher degree of morale into their organizations. The following suggestions include but a few of them. Only two things are certain—1. the state of morale in any plant can never be too high, and 2. A "one-shot" formula never fills the bill.

A morale-building project must be as permanent and continuous a part of management activity as maintenance of machinery, or budgeting, or selling and promotion.

Management must constantly inject new enthusiasm into the project and always seek out and use every possible means to check up on its progress. This should be done in an impersonal way. Don't kid yourself into thinking that your program is successful merely because you initiated it. Listen to the counsel of people in your own and other organizations which can be of help in keeping it on the right track.

A good way to begin is to earmark a certain percentage of your annual sales for personnel relations and welfare purposes. The latest operating cost percentages report of the American Institute of Laundering indicates that 519 member plants averaged just under one percent of sales in 1951 for this purpose. The report also shows that the same plants averaged 1.14 percent of sales in 1951 for repairs to, and maintenance of, machinery. Thus, while it is safe to assume that the average AIL member plant is not spending as much today for "maintenance" of its personnel as its machinery, it also appears that the average laundry can safely set a goal of a minimum of one percent of sales for a personnel project.

The next logical step is to determine how the money is to be used. In many plants this is accomplished by setting up a welfare committee. The original members of the committee should be employees who have been in the organization long enough to represent a sound point of view in helping formulate the most effective activities for your particular plant. A definite plan for the rotation of memberships on the committee should be decided on at the outset. Only in this way can the suspicion of favoritism be pre-empted and the whole-



"In working with employees it's important to always have a smile on your face."

hearted support of all employees gained. Management should be represented on this committee, of course, either in person or, after it is functioning smoothly, by a key supervisor.

The greater the degree of latitude you grant this committee in making its own decisions the more immediate will be the result in terms of higher morale.

A very effective device which should be considered by you and your committee is the morale survey. Some plants call it an attitude survey. More than one laundry today is using this type of survey to good advantage. If you employ a professional personnel relations firm one of the services which they will perform for you is the tailoring of such a survey to fit your particular needs. You can conduct this survey yourself each year so that its effectiveness can be accurately checked.

The morale survey

A morale survey offers every worker an annual opportunity to have his say about his boss, his job and his company. It is not an elaborate mechanism. It is simply a number of questions which the worker is asked to answer anonymously. Each question has three or more ready-made answers. The worker is asked to check only the one which comes the closest to expressing how he feels about the question. If none of the answers expresses his feelings he is privileged to write his own answer on a blank line provided for that purpose.

The cooperation of all workers is easily gained if the form and purpose of the morale survey is made letter-clear at the time of introduction. As one laundry's introductory statement says, "Do not sign your name. We don't want to know who you are, but only what you think about us. You have as much privacy as though you were in a voting booth!"

Here are some of the benefits you can expect from a survey of your employees' attitudes:

1. **It will uncover areas of employee dissatisfaction.** Whether imagined or real, an employee's attitudes are worth knowing. By and large, they determine the extent to which he is willing to cooperate with management and his co-workers.
2. **It will reveal weaknesses in supervision.** If an effective supervisory training program is to be carried out it must be adapted to specific needs. Knowing ahead of time just where a supervisor fails in the eyes of his subordinates enables management to tailor its program to individual needs.
3. **It will help reduce employee turnover.** There is only so much that you can learn from an employee if you question him at the time he quits because he is still on guard not to prejudice you against him. You can lose valuable people who have realistic complaints which they may still be afraid to voice or which they might actually not know the nature of.
4. **It provides you with a medium for two-way communication.** Even if you do not encounter obstacles to swiftly bringing your ideas and plans to the attention of your employees there is another block to consider. The sentiments, suggestions and complaints of your workers have to travel a long trail up to your desk. On this route they face the threat of being pigeon-holed, suppressed or, more often, distorted.
5. **Gives you an opportunity to compare the morale picture by departments.** Bottlenecks can often be traced directly to low morale in one department. Nothing can be more disruptive to production or create a greater lack of harmony than strife and misunderstanding between departments.

We have used a profit-sharing plan with our employees for some years and it has worked very well. We have had enough left over after using this plan to make it worth while and encourage us to stay in business.

A lot of men in the industry have called on us and asked us how we got along with our particular set-up. Mostly, they were being threatened with one kind of trouble or another and as soon as they got it cleared up they were going to put in a system similar to ours and correct their trouble. So far, I haven't seen anybody do it. After their troubles were over, they forgot about the threat and went along the same way.

HERBERT W. COLE

Cole's Laundry & Cleaners
Grand Rapids, Michigan

6. **Compares the morale picture in your laundry with other plants in the community.** This gives you a valuable check on what you should or should not do in order to compete for workers in the local labor market.

7. **Gives your people an opportunity to express their views.** Although this is the hardest benefit to put your finger on, it can be the most constructive in many ways. Letting workers know that you are interested in their feelings gives them a sense of importance. It makes them feel recognized—helps them identify their own interests with that of the company. It can be a significant step in improving employer-employee relations.

8. **It can be one of your most valuable sources of practical suggestions for improving production methods and sales techniques.**

While all returned questionnaires are kept in strict confidence a report of the results of each survey is made to all employees each year in terms of the overall picture, attitude of old and new employees, attitude of employees in each department and responses to miscellaneous questions. These results are expressed as a percentage of all replies received.

For example, a laundry which has conducted a survey each year since 1947 had this to say about the overall picture in their 1952 report:

"Employee morale is approximately at the same level as it was last year. Three-quarters of our workers like their supervisors, their jobs and the company itself. The improvements that have been made in working conditions have apparently resulted in a greater participation on the part of employees in returning questionnaires."

When the employees in this plant were asked their opinion of the morale survey, 87 percent replied that it is a real contribution to management-employee relations; six percent replied they were on the fence; and seven percent did not think it did much good.

Profit sharing plans

Have you ever considered setting up a profit sharing plan for your employees? Think it's too idealistic or impractical? Well, let's take a look at the plan in operation at Cole's Laundry & Dry Cleaners in Grand Rapids, Michigan. Then you can decide for yourself whether you want to investigate the idea further.

Herbert W. Cole, general manager of the plant describes the plan in the booklet "Working Together At Cole's" which is given to each new employee:

"You will find that it is important here at Cole's to enter into the spirit of turning out your work as quickly and as well as you possibly can, because those two factors more or less determine the amount of profits that we make each period; and the more profit we make, the larger share you receive each four weeks.

"Under the present Profit Sharing Plan each Cole's employee shares in the profits of the business as a reward for his cooperation and efficiency.

"This plan was started January 1, 1937, and operates as follows: After wages to the employees and salaries to the management have been paid, all expenses and depreciation have been deducted, and the management has received 8 percent on their investment, the remaining will be divided equally between the employees and management.

"Each female employee when completing her first four-week period of employment will receive one share of the profit for that period. If we use four-week periods, we are able to divide the year up into thirteen equal periods of four weeks each so that a direct comparison can be made between one period and another. After a new employee has received thirteen regular bonuses, or has been with us one complete year, she will step up to two shares and so on until she receives a total of ten shares. In other words, it will take a woman ten years to receive the maximum amount of her profit sharing, and at the end of that time she will receive as her share ten times as much as a young woman just starting.

"Now as far as the men are concerned, in view of the fact that most of the men are the bread winners of the family and usually make the business their lifetime work, we will start them off on a two share basis. They will receive their maximum of ten shares at the end of a five-year period. This also applies to women who are working in the capacity of head of a department.

"If anyone would like to receive his share twice a year instead of monthly, that can be arranged.

"In regard to part-time workers, if their schedule calls for half-time, then they will receive just half as much as those who are working full time. This ratio will increase or decrease depending on the number of hours the employee works.

"All boys will receive the same share as women do until they become 21 years of age. At that time they will be treated as men.

"If a loss is shown in any period or periods, this loss must be completely balanced off by profit before any profit sharing can be paid.

"Each employee will receive his share of the profits only for the weeks that he has been fully employed. . .

"In case an employee voluntarily or involuntarily leaves his employment he forfeits any profit sharing that he has coming and all seniority will be based on continuous employment unless such employee has received permission for a leave of absence due to sickness or lengthy vacation.

"There may be from time to time special cases which are not covered by these rules and in such an event we should have a meeting of not less than eight employees to consider any such case and decide how it should be handled. . ."

The following schedule shows the amount paid to Cole's five-year men since the plan was started. Each five-year woman worker received just half this amount.

1937	\$50.00	1944	\$432.00
1938	70.00	1945	540.00
1939	50.00	1946	600.00
1940	88.00	1947	1,000.00
1941	270.00	1948	1,020.00
1942	352.00	1949	840.00
1943	480.00	1950	770.00
	1951	\$665.00	

Mr. Cole says that the plan was a Godsend to them during the war. In 1944 they paid out \$35,000 to less than 200 employees as their share of the profits. Without that precedent they would have had to go to the War Labor Board and negotiate for wage increases. Their older employees knew their bonus would probably be higher and they stayed with them. There is a General Motors plant right across the road from Cole's. It employed about 1,500 workers at that time with a starting wage of 89 cents an hour. Cole's was in a critical labor area but this plan saw them through.

There are many variations on the theory of distributing profits to employees but this example will serve to show what has actually been accomplished in one laundry. Laundryowners who want to investigate the idea further should be sure to check with their accountants or lawyers to learn the various laws and rulings of the Bureau of Internal Revenue which govern the operation of such plans.

Stock purchase plans

Pilgrim Laundry in Brooklyn, New York, is a unique business organization. Founded in 1894, the company has always been outstandingly progressive in its relations with its workers. Originally two men owned all the company stock. Today 80 percent of the employees, (there are approximately 550) have either subscribed to, or already own, between 35 and 40 percent of the shares.

Sale of company stock to employees was inaugurated in 1909, when some of the young men were given the privilege of buying. In 1921, the purchase plan was opened to every member of the organization to subscribe for as much stock as they were interested in purchasing. The plan was conceived with the following objectives in mind.

1. To give every Pilgrim a chance (if desired) to share in the profits they helped create.
2. To give Pilgrims the thrill and encouragement of actually owning an interest in the business.
3. To give every Pilgrim a keen interest in the build-



"Okay, They've seen the World Series. Morale is 'way up. Now, what was the production this week?"



"Is it true the men and women in this plant use the same washroom?"

ing of Pilgrim's reputation for good work and courteous service.

4. To give every Pilgrim a real incentive for productive efficiency and elimination of waste.

5. To give every Pilgrim the possibility of keeping out of the hands of the loan sharks, by being able to borrow the full value of their stock, when emergencies arise which require ready money.

The management booklet describing the plan states: "One of the finest things which has resulted from stock ownership has been the inestimable help it has been to those who, for one reason or another have been obliged to leave our organization. In the case of death, widows and children have had means to help carry on. Those that were sick have had money to secure comfort and freedom from anxiety. As a matter of fact for the past 20 years, all the Pilgrim stockholders who have left the organization carried with them, as a result of their stock purchases, real money; in many cases running into hundreds and in some cases thousands of dollars to help them in any condition they had to meet.

"We have but one form of stock. Two plans of pur-

If you believe you can improve the loyalty, interest and efficiency of your organization, choose carefully the techniques you use, such as a plant committee, more frequent meetings of various departments and plant parties, picnics, etc. But most important of all, sell your supervisors and foremen on your program. Train them to recognize each employee as an individual deserving of fair and just treatment, to let people know exactly what is expected of them by taking the time to explain why, to praise a job well done, and to sincerely invite the employees' ideas and suggestions.

LLOYD A. PECK
Ideal American Laundry
Mason City, Iowa

chasing stock are in operation. The first plan requires payment of 25 cents per week, per share, on all stock subscribed for, allowing two years for full payment of this stock. Second plan is a note plan for purchasers of 10 or more shares. To this group is issued a certificate for the amount of stock that is purchased and notes with the stock as collateral are taken in payment.

"All the stock of the Company is owned by jobholders of the Organization who are actually working here, former employees who have retired after 25 years of service, and those receiving pensions."

In appraising the value of the plan in light of today's conditions, Pilgrim's management points out that while the dividend rate has varied somewhat from year to year, depending on the volume of sales, they have never failed to pay a yearly dividend from the start. They are very proud, and rightly so, of this record. They also point out that, inasmuch as all shares are owned by employees, the stock is not subject to fluctuation due to speculation.

The real pay-off, according to the management, is that the term of service of the average worker is considerably higher than it is in most laundries, and the feeling that "regardless of what lies ahead we're all partners in the same business together" has resulted in a secure and confident outlook on the part of each individual in the organization.

PENSIONS & GROUP INSURANCE

PENSIONS AND GROUP INSURANCE plans offer the laundryowner an opportunity to stabilize his work force, improve productive efficiency, encourage loyalty to the company and provide employees with a sense of security.

Fifty-five thousand employers now have some type of group insurance in their plants. Company pensions (retirement programs) also are a popular form of "employee benefits."

Use of pensions and group insurance plans reflects the growing interest and recognition of the importance of improving employer-employee relations.

In establishing a retirement program the employer can use the Federal old-age insurance plan under Social Security as a base on which to build a company pension system. By integrating a company pension plan with the Federal system, the laundryowner can deduct the cost of his program for income tax purposes. In most cases costs for a private plan not "integrated" with the Federal old-age plan are not deductible.

There are many types of pension plans available and for each type costs to the employer varies. Before establishing a pension program the laundryowner should carefully consider the advantage and disadvantage of the different plans. He should not hesitate to obtain information about specific plans from all sources before deciding. He must remember that a pension program is a long range affair. And undoubtedly he wants to be happy with something he has to live with for a long while.

In deciding on a pension plan, the employer should realize there are numerous factors other than costs that must be tested in the light of his own needs. There are many questions to be answered. Here are some:

Is the program too expensive? Will the employees be satisfied? What is the best retirement age? Should it be the same for men and women? Should employees con-

tribute to the plan, thus increasing their benefits? Should the employee have a vested right in the program? In other words, if the employee leaves the company should he receive a certain percentage of the value of the pension plan, depending on length of service? How much should the pension be? These and many other questions have to be answered.

Social Security benefits

Under the present social security law a person who retires (this includes the employer) can receive up to \$168.75 per month. This includes benefits for dependents. Payment, which starts at 65, if a person applies, depends on previous income, marital status and number of dependents. While the exact amount of payments can be determined only after a claim is filed, it is possible to get an idea of what the benefits will be.

First, it should be remembered that both employer and employee contribute to social security. The employer pays $1\frac{1}{2}$ percent of his annual payroll and the employee pays $1\frac{1}{2}$ percent of his annual wage. On his own account, the employer pays $1\frac{1}{2}$ times as much as an employee pays. Earnings up to \$3,600 a year are subject to the social security tax.

The recent changed formula for benefits effective Sept. 1, 1952, is 55 percent of the first \$100 of average monthly income, plus 15 percent of the excess up to \$300. Thus, primary benefits (for the individual only) at different average monthly wage levels would range from \$70 a month for an income of \$200 monthly to \$85 for a monthly income of \$300. Additional benefits are paid for a wife over 65 years of age. Also, there are similar payments for dependents.

While a firm can deduct costs for private pensions the right depends on the existence of a pension plan, which among other requirements, must not discriminate in favor of officers, stockholders, or highly compensated or supervisory employees. In essence, the employer can provide up to 37½ percent of pay in excess of \$300 per month.

Following are some examples of costs in relation to the types of pension plans. The employer should realize that these costs also will vary, depending on the institution that handles the program.

First example. Benefit—\$100 monthly at age 65 for 30 years of service, including primary social security—total reduced proportionately for less service. Based on 2,000 hours: for future-service funding, 2¾ cents per hour gross; for past-service funding (over 20 years), 1¾ cents per hour gross.

Second example. Benefit—\$125 monthly at age 65 for 30 years of service, including primary social security—total reduced proportionately for less service. Based on 2,000 hours: for future-service funding, 6 cents per hour gross; for past-service funding (over 20 years), 4 cents per hour gross.

Here is an example of costs for salaried personnel earning over \$3,600 annually. For retirement at 65 years of age the approximate cost would be 23% to 31% percent of the total annual payroll for eligible employees only, plus 2½ percent of the total annual payroll of eligible employees made annually for 11 years.

Insurance plans

Just as there are many types of retirement programs, there are different types of group insurance plans, offering employees protection in the form of life, hospital and other insurance programs.

According to a survey of 261 companies in various



Courtesy Metropolitan Life Insurance Co.

There are many plans available which help to provide financial security for employees

industries, offering some type of group insurance, all the firms provided life insurance, 80 percent accident and sickness, 67 percent hospital and surgical benefits.

In three out of four cases, the group insurance costs were shared (contributory) by both the employer and employees. One out of every four companies paid the entire costs.

Three-fifths of the employers participating in the survey said the group insurance plans had a beneficial effect on employer-employee relations. Less than one-third believed the program exerted a positive effect on labor turnover and greater efficiency.

Gross premium costs for employers ranged from 1.5 percent to 2.9 percent of the payroll, while employees paid 1.5 percent of their salaries.

Premium rates, reviewed each year and subject to change, depending on past experience, are based on working conditions in the plant, its location, type of persons employed, wage scales, living conditions of the employees and the past experience of the firm.

"In reality," the survey explains, "the cost of group insurance plans to the employer is relatively little considering the fact that the expenses are deductible from taxable income."

Here is an example of costs for one company, bearing in mind that the cost to the employer depends on the individual situation.

To provide an employee with life insurance, accident and health, dependent and personal hospital and surgical insurance, it costs one company \$9.45 a month.

Employee contributions vary from 50 cents to \$9.88 a month, depending, of course, on extent of coverage and the employee's salary.

During recent years interest in additional coverage has developed. This involves, among other things, physicians', surgeons' and nurses' fees, drugs and medicine costs, x-rays, and ambulance service. For an average plan of this type initial cost would be about \$2 a month per employee. In addition there are extensive plans for retired employees.

CREDIT UNIONS

LAUNDRYOWNERS KNOW that financial worries often interfere with an employee's productive efficiency. The employee beset with money problems finds it difficult to work at his best.

For those laundryowners who believe that a "happy employee is a better employee" a method is available to ease, if not completely solve, the financial concerns of employees. The device is a credit union.

A credit union is a cooperative association formed for two major purposes. First, it encourages systematic savings. Second, it makes loans available at reasonable rates. Credit unions, it has been found, are the cheapest source of loans.

Through these two functions, the employee can establish greater economic security, solidify his bond with co-workers and employer, thus making him a more contented individual.

Credit unions have been in existence for hundreds of years. The first credit union law in the United States was passed in Massachusetts in 1909. Congress passed the Federal Credit Union Act in 1934.

Credit unions are widespread in this country. There are 100,000 organizations in the nation with a membership of four million and assets of about \$1 billion. Half of the credit unions are chartered by the Federal government. The remainder are chartered by the states.

Credit unions are not new to the laundry industry. According to the Federal Security Agency, there are 21 credit unions in the laundry and cleaning industries (figures for both industries are combined). As of December 31, 1950, they had 3,000 members and assets of \$336,267. Figures for state memberships are not readily available.

Here is how a Federal Credit Union operates: Savings are made in the form of share purchases, each share valued at \$5. Savings can be made in amounts as small as 25 cents a month and withdrawn at will. As in savings banks, two months notice of withdrawal is required, but this provision is seldom enforced. Out of the funds accumulated loans are made available to members. The law allows unsecured loans up to \$400. Larger loans may be made if adequately secured, and also depend on the size of the credit union.

Control and management of credit unions are in the hands of the members, under the regular supervision of the Federal government. At each annual meeting a

board of directors, supervisory committee and credit committee are elected. The board of directors of each credit union can fix lower limits for loans and revise them as the organization grows in terms of membership and assets. Loan applications must receive the approval of the credit committee.

Interest on loans may not exceed one percent per month on the unpaid balance inclusive of all charges involved in making the loan. Each credit union has the privilege of fixing its own interest rate within this limit established by law. Net earnings from loans or other sources are returnable to members in the form of dividends, except for 20 percent which is set aside as reserve for bad loans.

In well established credit unions, dividends of three or four percent are common, and some have paid up to six percent.

Statistics of the Federal Security Agency show that credit unions have been operated with notable success by employees, none of whom are paid. However, some credit unions pay the treasurer a nominal fee for his efforts. Losses from bad loans have been less than 0.2 percent of all loans made. Records of state chartered credit unions are equally satisfactory.

Credit union safeguards

Through the Federally enacted law, a number of safeguards have been established to protect the members' savings as follows:

1. Membership is limited to fellow employees.
2. Loans are limited to members.
3. The treasurer and all other officers handling funds must be bonded.
4. Affairs and records of the credit unions are frequently audited.
5. Surplus funds may only be invested in obligations of the Federal government or in other credit unions.
6. The Bureau of Federal Credit unions makes periodic examinations of all records.
7. Funds must be deposited promptly in a bank insured by the Federal Deposit Insurance Corporation.

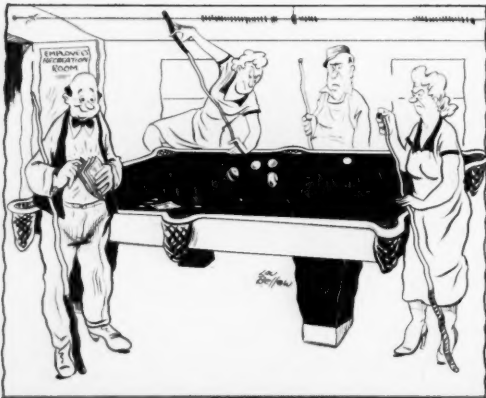
According to the Federal Security Agency, the organization of a credit union does not involve any cost to the employer. Some employers, however, have donated desk space and sometimes allow an office clerk to devote some time to the business of the credit union.

There are just two steps involved in establishing a Federal Credit Union. One, the employer should discuss the need and desirability of a credit union with representatives of the employees. Second, he should communicate with the Bureau of Federal Credit Unions, Federal Security Agency, Washington, 25, D. C.

The only cost is a membership fee of 25 cents.

While provisions of Federal and state charters are basically the same, they do vary in detail. Major differences include the minimum number of eligible members and degree of supervision of the credit unions. At request, a regional representative will confer with any interested group, giving more details of organization.

For a laundry plant to be eligible for a Federally chartered credit union, it must have at least 100 potential members. State requirements vary in this respect and are generally lower. Since there are differences in the Federal and various State charters, it is advisable to get complete information about both. Information on state charters can be obtained by writing to the Credit Union National Association, Madison 1, Wisconsin, or to the banking authority of the state concerned. ●



One way of translating employee morale into profits

PRODUCTION AND MANAGEMENT

Washroom Information

Standard Capacities

Maximum Pounds Dry Per Inch and Per Foot of Length

Diameter of Wheel	Per Inch		Per Foot	
	Metal	Wood	Metal	Wood
30"	2.00 lbs.	1.68 lbs.	24.0 lbs.	20.0 lbs.
36"	3.05	2.36	36.6	28.3
42"	4.17	3.40	50.0	40.8
44"	4.58	3.75	55.0	45.0
54"	6.88	4.80	82.7	57.6

Source: AIL

Knowing the maximum pounds of dry weight of soiled linens per foot or per inch of length, it is possible to obtain an approximate washer load limit. For instance, a metal wheel 36 inches in diameter will take 3.05 pounds per inch of length: $3.05 \times 54 = 146.7$, maximum load for a 36 x 54 washer.

Wood Washers

In Dry Pounds of Clothes

Diam. of Wheel	Length of Washer									
	30"	36"	48"	54"	64"	72"	84"	96"	108"	120"
30"	35	40	55	60						
36"		70	90	100	120	135	160	185		
37"		70	90	100	120	135	160	185		
40"		100		125	145	160	185	210		
41"		100		125	145	160	185	210		265
44"				160	180	200	225	250	275	
48"						250	275	300		350

Source: AIL

Dry Clothes

1. Occupy approximately 0.243 cubic feet per pound.
2. Weigh approximately 4.11 pounds per cubic foot.
3. Displace about 0.0125 cubic feet of water per lb.

4. Weigh approximately 0.033 pounds per square foot.
5. The correct load for a washer is approximately 5 pounds per cubic foot. For rough purposes, a washer will therefore be correctly loaded when it is about 80 percent full of dry load. (Not packed down hard.)
6. Absorb about 0.3 gallons of water per dry pound.

Wet Clothes

1. Occupy approximately 0.11 cubic feet per pound of dry clothes.
2. Weigh about 3.48 pounds per pound of dry clothes.
3. Weigh approximately 31.8 pounds per cubic foot.
4. Occupy approximately 0.0314 cubic feet per pound.
5. Contain approximately 9.12 pounds of dry clothes per cubic foot.
6. The correct load for a washer is approximately 5 pounds per cubic foot. For rough purposes, a washer will therefore be correctly loaded when it is about 55 percent full of wet load (with the washer drained).

Open-End Washers

Manufacturers' Rated Capacity in Dry Pounds Of Clothes

Diam. of Wheel	Length Or Depth Of Wheel									
	14	15	16	18	20	22	24	25	26	28
20	15	..	..	..	..	..
22	25	..	..
27	..	20	..	..	..	..	..	..	..	..
28	25	..	..	..	..	..	..	..
30	25	25	..	35	..	..	..	..	..	50
32	50	..	..	..
34	60	..	..	..
36	30	50	..	60	60	75	..	..
42	100	..	100	..	..

Metal Washers

In Dry Pounds of Clothes

Diameter of Wheel	Pounds Per Cubic Foot	Length of Washer												
		36"	38"	42"	44"	48"	54"	64"	72"	84"	96"	108"	120"	126"
36"	4.0	85	89	100	104	113	127	151	170	197	226			
38"	4.0	94	100	110	115	126	141	168	189	221	252			
42"	4.5	130	135	150	158	173	194	231	260	302	346	390	433	453
44"	4.5	142	150	167	174	190	214	254	285	333	381	428	476	500
48"	4.5	170	179	198	210	226	254	301	339	395	452	509	565	595
54"	5.0	238	250	278	291	318	357	424	477	556	636	715	795	833
60"	5.0	294	310	343	360	392	441	523	589	687	785	883	982	1032

Source: AIL

Recommended loads for washwheels can be only approximate. The correct size of the load will vary with type of work being handled, the degrees of soil and individual plant conditions. Capacities given are meant to serve as a guide. The recommended loads are based on a sliding scale of from 4 to 5 pounds per

cubic foot. Maximum capacities given here are based on 5 pounds per cubic foot, although some manufacturers suggest that peak loads may run 5 pounds to 6 pounds per cubic foot, the latter, of course, for the largest size washers.

(Continued on following page)

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Weight of Linen Supply Items Per 100 Pieces

	Pounds		Pounds		Pounds
Aprons	50	Mats, Bath, 20½ x 29"	75	Spreads, 54 x 90"	260
Aprons, Bib	48	26 x 50"	200	90 x 100"	394
Butcher	50	Mats, Steamship Bath	122	Steamship ½	179
Hoover	100-106	Steamship Table	175	Steamship ¾	212
Wash	32.2	Mattress Covers, Steamship	185	Steamship Full	262
Waist	32.2			Tablecloths	60
Bungalows	75	Napkins	11.1	S.S. Small	120
Bungalow Aprons	50	Table, 26 x 26"	16.6	S.S. Large	197
Blankets, Steamship	250	Steamship	15	Tidies	38
				Tops, Table, 45 x 45"	50
Caps	10	Overall Coats	106	Towels, Barber	11.2
Cases, Pillow, 38½ x 50"	43	Pants	150	Bath, 24 x 44"	75
Pullman Pillow	23.3			Face, 21 x 44"	28
Cloths, Hand	25	Pants	100	Glass, 17 x 33"	12.5
Table, 70 x 70"	156	Steamship Waiters'	125	Glass	16.9
Head Rest	16	Pullman Blankets	325	Hand	15.9
Coats, Short	106	Hand Towels	12.5	Individual	6.05
Butcher	225	Pillow Slips	22	Kitchen	15
Steamship Cooks'	125	Sheets	112	Kitchen, 17 x 30"	18.8
Steamship Waiters'	125			Pullman	15
Steamship Butcher	225	Rags	6	Roller	42.6
Curtains, Steamship Shower	75	Settee Covers, Steamship	125	Side, 17 x 34"	16.7
		Sheets, 63 x 90"	133	Silver, 17 x 30"	25
Dailies, Table, 11 x 11"	3.1	90 x 108"	228	Small	15
Dresses	50	Pullman	112	Soda	16.9
Dusters, Steamship	25	Steamship ½	122	Steamship Barber	15
Frocks	200	Steamship ¾	138	Turkish	47
		Steamship Full	195	Trousers, White	131
		Shirts	50	Uniforms	100
		Slips, Pillow	30.8	Unionalls	187
		Steamship Pillow	33	Vests	50

Source: AIL

Weight of Family Laundry Items Per 100 Pieces

	Pounds		Pounds		Pounds
Aprons, Ladies	50	Napkins, Cotton, 18 x 19"	8.5	Stockings, Silk (100 Pcs.)	7.5
Tea	20	20 x 20"	9.4	Golf (100 Pcs.)	10
Bath Mats	125	22 x 22"	11.4	Table Cloths, Cotton, 54 x 54"	70.6
Blankets, Single Cotton	300	24 x 24"	13.5	63 x 63"	96.5
Double Cotton	600	27 x 27"	17.3	72 x 72"	126
Blankets, Single Wool	400	Night Shirts	40	72 x 90"	158
Double Wool	600	Nightgowns	65	90 x 90"	197
Blouses, Boys'	35			Table Covers, Cotton, 42 x 42"	55
Cases, Pillow, 42 x 36"	33	Overalls	200	48 x 48"	72
45 x 36"	35	Pajama Coats	31	49 x 49"	75
38½ x 50"	42	Pajama Pants	31	72 x 72"	162
Collars	5	Pants, Boys'	50	Towels, Bath, 18 x 36"	39.5
Curtains	34	Rabes, Bath	150	18 x 40"	43.5
Cloths, Wash	4			19 x 39"	45
Dailies	6	Sheets, 50 x 90"	114	21 x 42"	53.5
Dresses, Child's	25	63 x 90"	133	22 x 40"	53.5
House	60	63 x 99"	146	23 x 46"	64
Night	34.5	72 x 90"	152	25 x 48"	73
Face Cloths	4	72 x 99"	164	25 x 50"	76
Handkerchiefs, Men's	3.3	72 x 108"	183	29 x 55"	97
Handkerchiefs, Ladies'	1.7	81 x 90"	171	Towels, Face	16
Hose, Men's (100 Pcs.)	10	81 x 99"	185	Kitchen	18
Jumpers	100	81 x 108"	205	Trousers	131
Laundry Bags	75	90 x 99"	209	Tray Cloths	25
Mattress Covers	200	90 x 108"	228	Undershirts, Men's Light	18.5
Mats, Bath	125	Shirts, Men's	50	Men's Heavy	34.5
Napkins, Cotton, 16 x 17"	6.4	Shirts, Men's Dress	75	Underdrawers, Men's Light	15
18 x 18"	7.6	Skirts	75	Men's Heavy	35
		Spreads, 72 x 90"	347	Ladies' Heavy	30
		72 x 104"	400	Unionsuits, Light	30
		80 x 90"	385	Heavy	100
		86 x 104"	478	Undervests, Ladies'	20
		90 x 90"	433		
		90 x 96"	462		
		100 x 104"	556		

Source: AIL

Gallons of Water in Loaded Laundry Washers

(Wheel in motion; clothes saturated)

	Inches, gauge														
Size	2"	3"	4"	5"	6"	7"	8"	9"	10"	11"	12"	13"	14"	15"	
32 x 30	7.5	9.5	11	13	15	17	20	22	24	26	29				
36 x 36	11	14	17	20	23	26	30	33	36	40	44				
36 x 54	16	21	25	30	34	40	45	50	55	60	66				
36 x 64	19	24	30	35	40	46	53	58	64	70	77				
36 x 72	22	28	34	40	46	52	59	66	73	80	88				
36 x 84	25	32	39	46	53	61	70	77	85	93	102				
36 x 96	29	37	45	53	61	69	80	88	96	106	116				
42 x 36	15	20	23	27	31	34	37	39	43	46	50				
42 x 54	25	33	38	40	50	56	60	65	64	77	82				
42 x 64	27	35	41	47	54	60	65	70	76	82	88				
42 x 72	30	39	46	53	61	67	73	78	86	93	100				
42 x 84	35	46	54	62	71	79	85	91	100	108	116				
42 x 96	40	53	62	71	81	91	98	104	115	124	133				
44 x 36	17	22	25	30	34	37	41	43	47	51	55				
44 x 54	25	33	37	45	51	56	62	66	72	77	83				
44 x 72	33	43	51	58	67	73	80	86	94	102	110				
44 x 84	38	50	60	68	78	84	92	102	107	119	129				
44 x 96	45	59	67	80	91	99	110	115	125	136	146				
44 x 108	50	64	77	87	100	108	120	132	139	153	166				
44 x 120	57	73	85	97	111	120	134	145	154	170	184	196			
48 x 84	54	66	80	94	106	123	137	152	162	180	192	208	224		
48 x 126	80	100	120	140	160	183	203	224	247	268	290	313	337		
54 x 84	60	72	85	100	115	130	145	160	175	189	204	220	235	250	
54 x 126	90	108	127	149	170	192	213	236	258	280	305	329	351	374	
60 x 126	85	115	132	156	180	203	227	249	272	297	320	344	368	390	

Source: AIL

The table above indicates gallons of water added after saturation of load to obtain various gauge readings. The table may be useful to find the volume of water required for any washing cycle. Dry clothes absorb between one-third and one-fourth of a gallon of water per pound. A 36 x 54 metal washer, 165 pound load, using a formula of 4 suds at 3 inches and 5 rinses

at 9 inches will require a total of 384 gallons of water or roughly 2.3 gallons per pound—

Absorption .3 gal. per lb. $3 \times 165 = 50$ gals.

Suds 4×21 , gals. at 3 inches = 84 gals.

Rinses 5×50 , gals. at 9 inches = 250 gals.

Total water required = 384 gals.

$384 \div 165 = 2.32$ gals. per pound

Pipe Sizes Required

Washer Diameter	Size of Water Pipe
24" to 28"	1 inch
30" to 40"	1 1/2 inches
36" (wood)	2 inches
36" x 36" to 72" (metal)	2 to 2 1/2 inches
40" to 44" (wood)	2 inches
42" x 36" to 72" (metal)	2 to 2 1/2 inches
42" x 84" or longer (metal)	2 1/2 inches
48" x 60" (metal)	3 inches

Source: AIL

Water connections should be capable of filling and emptying the wheel at maximum water heights in less than one minute. A 42" x 84" metal washer should fill to 10 inches—130 gallons—in about one minute.

Washer Revolutions Per Minute

Dependent On Rib Height

Diameter of Wheel	Height of Ribs							
	2"	3"	4"	5"	6"	7"	8"	9"
24"	37	34	30	27	24	22	20	18
28"	37	33	30	27	24	22	20	18
32"	37	33	30	27	24	22	20	18
36"	37	33	30	27	24	22	20	18
42"	36	32	29	26	24	22	20	18

Source: AIL

Washer speeds should be from 220 to 330 feet per minute dependent on the height of ribs. With an increase in rib height, fewer revolutions per minute are required to carry load to point of drop.

Starching Data

Methods of Sizing Shirts in the Wheel

There are three methods by which shirts may be completely sized in the wheel:

1. Size in the wheel in which shirts have been washed, during the last rinse or bluing process. The water level is dropped to three inches in the inside cylinder and the required amount of starch added to the wheel while in motion.

2. Size in the wheel in which shirts have been washed but after washing process has been completed, water is drained from wheel, the wheel is stopped and opened and the required amount of starch is poured directly over the shirts.

3. After washing process has been completed shirts are pulled, extracted and transferred to separate wheel.

(Continued on following page)

(Continued from preceding page)

Procedure from here on is same as in No. 1 method described above.

Method No. 1 is standard practice in the great majority of laundries sizing shirts completely in the wheel. It is recommended because of the time and labor it saves, and the higher degree of uniformity of work it assures.

Proportions

To Prepare	6 Oz. To A Gal.	7 Oz. To A Gal.	8 Oz. To A Gal.	9 Oz. To A Gal.	10 Oz. To A Gal.
Gals.	Lb. Oz.	Lb. Oz.	Lb. Oz.	Lb. Oz.	Lb. Oz.
5	1 14	2 3	2 8	2 13	3 2
10	3 12	4 6	5 0	5 10	6 4
15	5 10	6 9	7 8	8 7	9 6
20	7 8	8 12	10 0	11 4	12 8
25	9 6	10 15	12 8	14 1	15 10
30	11 4	13 2	15 0	16 14	18 12
35	13 2	15 5	17 8	19 11	21 14
40	15 0	17 8	20 0	22 8	25 0
45	16 14	19 11	22 8	25 5	28 2
50	18 12	21 14	25 0	28 2	31 4

Procedure for Sizing Shirts Complete in the Wheel

1. Have three inches of water in inside cylinder of wash wheel.
2. Use one gallon full strength starch to each 25 to 35 shirts—on an average three gallons (one 12 qt. pail) to each one hundred shirts.
3. Add required amount of starch to the wheel during last rinse or bluing process, while wheel is in motion and turning toward you. Run load for a full ten minutes.
4. Increase or decrease the amount of starch used, if necessary, to meet local conditions or special requirements as to weight and body of shirt work.
5. When shirts are washed in nets figure each net as two shirts and make proper allowance for amount of starch to be used.

6. After starching, extract shirts until just a trace of water comes from the extractor. Time required will depend on speed of extractor and weight of load. Iron directly on press machine.
7. Colored shirts require 10% to 15% less starch than white shirts, so if washed separately, use proportionately less starch than recommended above. It is recommended therefore that white and colored shirts be sized separately whenever possible.

Preparation of Starch

The use of all-cooked starch for sizing shirts in the wheel is recommended because cooked starch gives work a better feel and finish, more uniform results and less is required than if starch is used raw.

Prepare the thin boiling, non-congealing starch on the basis of 8 oz. per finished gallon—the semi-thick boiling starch on basis of 5 oz. per finished gallon.

Following is a table showing amount of starch to use in preparing given quantities of cooked starch on the basis of either eight ounce or five ounce per finished gallon:

To Make	At 8 Oz. Per Gal.	At 5 Oz. Per Gal.
10 gal.—use	5 lbs.	3 lbs. 2 oz.
15 gal.—use	7½ lbs.	4 lbs. 11 oz.
20 gal.—use	10 lbs.	6 lbs. 4 oz.
25 gal.—use	12½ lbs.	7 lbs. 13 oz.
40 gal.—use	20 lbs.	12 lbs. 8 oz.
50 gal.—use	25 lbs.	15 lbs. 10 oz.

When preparing starch, always:

1. Weigh starch and measure water accurately. Do not guess.
2. Boil starch fairly hard for twenty minutes, counting time from moment boiling actually starts.
3. Check valves on starch cooker to make sure they do not leak and thus cause the starch solution to thin out.
4. Keep starch cooker and all containers clean to prevent souring.
5. Do not "build up" starch; make fresh starch and add old starch to it.

Bluing, Bleaching, and Souring Data

Bluing

Most blues are supplied in two or three different shades—usually a red-blue shade and a green-blue shade and frequently also an in-between shade known as a blue shade—sometimes referred to as a blue-blue shade. These various shades are all blue, of course, but the proportions of colors in them are altered slightly.

In areas of low bicarbonate alkalinity in the water, most plants prefer to sour at a low water level and raise the level for the blue bath. When sour is applied before blue, shade selection is mostly a cut-and-try procedure.

All three shades can be applied in an acid bath, although there is often a greater tendency toward grabbing with a green-blue shade than with either of the other two. This doesn't present much of a problem because there is seldom occasion to use a green-blue shade in a "sour-first" formula. The red-blue shade is most often preferred for application after sour with the blue shade running a fairly close second.

When bicarbonate alkalinity in the water is high, it usually pays to reverse the conventional procedure and

blue before souring, because it is possible to use substantially less sour to neutralize the alkalinity in four or five inches of water if the sour bath is the last operation than would be required to neutralize the alkalinity in 10 to 12 inches of water, which would have to be done if the blue were the last operation. If the bicarbonate alkalinity is very high (more than 250 ppm of NaHCO_3) a green-blue shade is likely to be most satisfactory. When the bicarbonate alkalinity is moderate or low (less than 250 ppm NaHCO_3), the choice is usually between a green-blue shade and a blue shade. A red-blue shade is seldom adaptable to a "blue-first" formula.

Quite a number of laundrymen prefer to blue before souring—even though the water in their plants is low in bicarbonate alkalinity. The idea is not primarily to save sour, but to eliminate spotty, streaky, uneven bluing. There is no guarantee that bluing before souring will eliminate bluing difficulties, but there is some basis for hoping that it will in a great many cases.

One factor in bluing practice that unquestionably

accounts for a great deal of blue-grabbing and similar difficulties, is the tendency of some washmen to be in a little too great a hurry to get the blue into the wheel in conventional "sour-first" formulas.

When a load is soured at a water level of four or five inches with the intention of raising that level to 10 or 12 inches for blue, naturally the amount of sour added at the low water level is going to have to be enough to keep the load sour at the higher water level. So while the water level is still low, the load is over-soured.

If blue is applied to such an over-soured load before the high water level is reached, there is always a very strong tendency for the heavily soured fabrics to grab the blue. Unfortunately, just putting on one or two cold rinses cannot be depended upon to rinse out grabbed blue. Very often the dyeing job thus accomplished requires vigorous washing and, sometimes, heavy bleaching.

One sensible preventive measure is simply to switch the sour and blue operations so that blue cannot be applied on an over-soured load. When blue is applied to a load ahead of sour, it doesn't fully discharge upon the goods until sour is added. Without risking an uneven "take," this procedure permits a uniform distribution of blue throughout the washwheel solution and throughout the load—before the blue is fully developed. Thus, when the sour is finally applied, the blue on the load can develop evenly. As a rule, either a blue shade or a green-blue shade is more likely to be successful in such formulas than a red-blue shade.

To assure uniform bluing, it is essential that the strength of the stock solution of blue be standardized. Concentrations of two ounces of concentrated blue in two, five, or ten gallons of water are satisfactory—so long as the same concentration is always used.

Generally it seems to be preferable not to add any greater volume of 56 percent acetic acid than of the concentrated blue. If the stock solution is made up by using two ounces of concentrated blue in a five gallon crock, two ounces of 56 percent acetic acid ought to be plenty. Over-acidified blue stock solutions have been known to promote a great deal of troublesome blue-grabbing and blue-dyeing. Moreover, although most blues are free from pronounced sedimentation tendencies, any blue is more likely to settle out of solution in the crock if it is highly acidified.

Acetic acid will provide somewhat "longer mileage" on blue, but it is misleading to assume that a quart of blue can be made to last twice as long by adding two quarts of acetic acid along with it. All that that sort of thing can accomplish is to promote a muddy blue or blue-gray cast in the work.

Stock solution should always be carefully measured out in non-metallic cups or other small measuring containers (glass, plastic, or earthenware), diluted in a pail of cold water, and applied evenly across the wheel—preferably with the wheel turning toward the operator—after the water in the wheel has reached the customary level for bluing.

Source: Cowles Chemical Co.

Bleaching

Bleaches fall into two general groups: oxidizing and reducing.

An oxidizing agent adds oxygen to the discoloration to remove it. A reducing bleach takes away oxygen to accomplish the whitening process. Reducing bleaches also include stripping agents such as sodium hydrosulfite and sodium bisulfite. A stripping agent is used for complete color removal from dyed or tinted fabrics and not for general whitening practice.

The oxidizing agents include sodium hypochlorite, sodium perborate, hydrogen peroxide, and potassium permanganate. Of these, only sodium hypochlorite and hydrogen peroxide are used extensively in laundries.

Hydrogen peroxide bleach is recommended for silks, wools, and rayons because of its relative mildness and safety in use. Because the bleaching action and stain removal properties of hydrogen peroxide on cotton and linen fabrics fall short of the performance of sodium hypochlorite its usage is rather restricted. It is sold on the basis of oxygen content expressed as percentage or volume. The two most common forms are three percent (10 volume) and 30 percent (100 volume).

A three percent stock solution is normally made up. If the peroxide is purchased in the 30 percent form it is diluted with nine parts of water to form the stock solution. One pint of three percent solution per 100 pounds of clothes is the amount to use in a bath following the suds, before rinsing. A running time of 10 minutes is long enough at around 150 degrees.

Because it decomposes readily always keep peroxide out of the sunlight and keep foreign material out of the carboy in which it comes.

Sodium hypochlorite is by far the most popular form of bleach used in laundries. It may be made up in various ways but the solution poured on the washwheel is the combination of sodium, oxygen and chlorine corresponding to the formula NaOCl .

Chloride of lime bleach is the old standard of the laundry industry. For years it was the only plant method in use. The method consists of allowing proper amounts of chloride of lime to react with soda ash or modified soda to neutralize the lime hardness and produce a sodium hypochlorite bleach acceptable for use. A typical formula utilizes 10 pounds of chloride of lime with 10 pounds of soda ash, or 20 pounds modified soda, in 35 gallons of water to give a one percent available chlorine bleach. A thin slurry is made with the chloride of lime and part of the water. The alkali is then added and mixed until dissolved. After adding the balance of the water, the solution is allowed to stand until the sludge settles to the bottom. The clear solution is then ready for use.

High test bleaching powder (calcium hypochlorite) has to a large extent replaced the chloride of lime method because it is more convenient to use. It is available in bulk quantity or in unit cans designed for the preparation of 30 gallon batches of bleach. In preparing stock solutions the calcium hypochlorite is converted into sodium hypochlorite by a procedure similar to that described for chloride of lime bleach. One unit can, containing $3\frac{3}{4}$ pounds of bleach powder, mixed with 3 pounds of soda ash, or 6 pounds modified soda, in 30 gallons of water will yield one percent available chlorine bleach. If the powder is purchased in bulk quantity the same proportions are used.

In making up bleach by either the chloride of lime or high test bleaching powder methods it is good practice to use a two-tank system. The bleach is made up in one tank then drawn or siphoned off to the other tank from which it is used. This system adds a margin of safety in that the sludge particles formed in the bleach preparation never reach the washwheel. Only the clear stock solution is used.

Because it is simple to use, carboy bleach is very

popular among laundrymen. It is simply a high-strength sodium hypochlorite bleach of from 12 to 16 percent available chlorine delivered in five-gallon glass carboys. A one percent stock solution is made up by diluting it with water. If the strength of the carboy bleach is 14 percent, a dilution of one gallon of bleach in 13 gallons of water will make 14 gallons of stock solution of one percent available chlorine strength.

A stock solution should always be used on the wheel. It is too difficult to measure accurately a small amount of concentrated solution and the smaller the load in the wheel the more difficult this practice is.

How much bleach do we use? Enough to achieve whiteness in the work. Two quarts of one percent bleach per 100 pounds of work is the generally accepted standard. However, this figure is not inflexible. The less you can use the better. Sometimes you may have to increase this amount slightly but it is well to investigate the remainder of the washing formula first. Excessive use of bleach always means excessive tensile strength losses.

We use bleach after the clothes have been washed clean—after the last suds and before rinsing. We choose this point so that the bleach will work on the stains and the fabric instead of being wasted on soil. Some soap or soap regenerator added to the operation before the bleach will give better penetration and dispersal of the bleach through the load. After adding the bleach the suds level will drop, then return to a higher level. The bleach destroys some soap but it strips more soap from the fabrics than it destroys. This results in a net gain in suds.

The water level for the bleach bath should be the same or slightly higher than that of the preceding suds baths. Five inches is a good standard. Temperature of the water should be between 135 and 160 degrees. A good average is 150 degrees. Decomposition of bleach in the load is partially dependent on temperature, i.e., the higher the temperature the more rapid the action. Too low a temperature means that the bleach bath must be run too long to get proper results. Too high a temperature means that the bleach will decompose before properly penetrating the load.

If live steam must be used to heat the water above 135 it should be done before the bleach is added. Adding

steam while bleach is in the wheel will result in spotty, excessive bleaching action with attendant damage to the clothes.

The bleach bath should run from eight to 10 minutes. Tests have shown that 80 to 90 percent of the bleach is decomposed in the first three minutes but additional time is necessary to complete the job. Running a bleach bath longer than 10 minutes wastes time and money.

Let's review the above procedures. First, we make sure that we are washing the work clean. Bleach is a valuable washing aid but it cannot compensate for a poor job of soil removal. Then we choose the proper bleach.

From the bleach we choose we make up a one percent stock solution. If we are concerned with small quantities we may make this a 0.5 percent stock solution and double the amount used on the wheel. We use about two quarts of one percent stock solution per 100 pounds of load. If we can obtain satisfactory whiteness by using less we do so. The bleach bath follows the suds. Soap or soap regenerator is added to the bleach bath to raise a suds. The bath is run in five inches of water at 150 degrees for 10 minutes. The work is then ready to be rinsed.

Use a rubber dipper to measure bleach stock solutions. If you measure your solution in pints get a pint-size dipper. Don't buy a quart dipper and guess when you have it half full each time. Wait until the full water level has been reached in the washer then add the stock solution slowly along the width of the wheel as it turns down into the solution. Never add steam after adding bleach to the wheel.

Leaking bleach pails are an invitation to damage claims and should be discarded at once (a prime reason for not using the washroom floor as a classifying table). When dipping out bleach beware of dipping into the sludge. (When poured into the washwheel sludge will cause pinholes in the clothes.) It is false economy to prepare a new batch of bleach stock solution by utilizing the sludge remaining from the previous batch.

Remember to use caution. The bleach in the stock solution is about 100 times as strong as when used in the wheel, so treat it with care. Even when properly used, bleach probably contributes more to tensile strength loss than any other washing supply.

Souring

The primary purpose of a souring operation is to neutralize the bicarbonate alkalinity in the water and the unrised alkalinity still remaining in the clothes. This neutralization is necessary because of the tendency of white cellulose materials such as cotton and linen to assume a yellow or brown color in the presence of heat when alkali is present. Other properties of a good sour include removal of iron stains and destruction of bacteria.

How much sour do we use? We use enough to bring the pH of the load to generally accepted standards. For starched work such as shirts and uniforms, we attain a pH of 4.5 to 5.0. For finished family work, 5.0 to 5.5, and for wetwash, 6.0 to 6.5. No figures on amounts of sour needed to reach these values can be given since they will vary from plant to plant. Experimentation on one load will give an approximation of the correct amount to use. Checking further loads and making any necessary small corrections will establish a stand-

ard. Once the correct amount of any given sour is determined substitutions of other sour may be made on a mathematical basis. The following table gives these ratios.

Name	Chemical Formula	Relative Neutralizing Value Taking 56% Acetic Acid As 1.0
Fluosilicic Acid	H ₂ SiF ₆	4.3
Sodium Silico Fluoride	Na ₂ SiF ₆	2.3
Ammonium Silico Fluoride	(NH ₄) ₂ SiF ₆	2.4
Ammonium Acid Fluoride	NH ₄ HF ₂	1.9
30% Fluosilicic Acid	H ₂ SiF ₆	1.4
100% Acetic Acid	CH ₃ COOH	1.8
56% Acetic Acid	CH ₃ COOH	1.0
Sodium Acid Fluoride	NaHF ₂	1.7
Oxalic	H ₂ C ₂ O ₄ (2H ₂ O)	1.7
100% Hydrofluoric Acid	H ₂ F ₂	5.4
30% Hydrofluoric Acid	H ₂ F ₂	1.6

Use of this table is simple. Suppose that we have been using sodium silico fluoride and desire to change to sodium acid fluoride for greater rust removal. From the table we find that the values are in the proportion of 2.3 to 1.7. Therefore, for each 2.3 ounces of sodium silico fluoride now in use we will use 1.7 ounces of sodium acid fluoride.

The sours listed above are all good sours, as are many commercial mixtures. However, not all acids are safe souring agents. Such chemicals as hydrochloric acid, sulphuric acid, and sodium acid sulphate will cause damage to fabrics if used, even when carefully rinsed out. There are enough good, safe sours to use without incurring the risk of damaged goods and resultant claims. Oxalic acid, widely used for removal of rust stains, must be thoroughly rinsed from the fabrics to avoid chemical damage.

Rules for the use of sour are simple. We sour at a low water level of 4 to 5 inches so that we may have a high concentration without wastage of supplies. The temperature is held as high as possible considering that the load must be handled after one or two more operations (130 degrees is recommended.) Time of operation is about five minutes—just enough for neutralization to take place.

Rust removal is an important function of the sour bath. We choose a sour that, in addition to neutralizing value, will also remove rust stains. A sour such as oxalic acid is used when high rust concentrations are encountered. Thorough rinsing after the operation is required to insure removal of the oxalic acid which will cause chemical damage if an excess is left in the clothes. A common mixture, tailor-made to avoid such complications, is one of oxalic and acetic acid. The oxalic acid, being more active, is used up first; leaving only acetic acid, which will not cause damage, as excess. For minor

rust stain removal we choose a sour containing an acid fluoride salt.

The point in our washing operations at which we add a sour bath depends on our water supply. With water of low bicarbonate alkalinity, we sour after rinsing and then blue the load. With water of high bicarbonate alkalinity, we blue first and then sour. The reason for this is because the alkalinity of the water raises the pH to undesirable levels necessitating the use of excessive sour to counteract this reaction.

Properties of Sours

Name	Commercial Form	Reducing Power	Volatile at Ironing Temperature	Amount Necessary to Replace 1 Oz. of Oxalic Acid
Acetic acid	56% solution	Very mild	Yes	(Avoid dupeis) 1.70 oz.
Acetic acid	80% solution	Very mild	Yes	1.10 oz.
Ammonium acid fluoride	White powder	Small	Yes	0.90 oz.
Ammonium silico-fluoride	White powder	None	No	0.71 oz.
Formic acid	90% solution	Strong	Yes	0.81 oz.
Hydrofluoric acid	30% solution	None	Yes	1.06 oz.
Hydrofluoric acid	48% solution	None	Yes	0.67 oz.
Oxalic acid	Crystals	Strong	No	1.00 oz.
Sodium acid fluoride	White powder	Small	No	0.98 oz.
Sodium silico-fluoride	White powder	None	No	0.75 oz.

Source: Philadelphia Quartz Co.

Extractor, Tumbler and Ironer Data

Extraction Data

80% of Water Removed in Extraction

Type	Basket Volumes		Weight of Loads, Pounds		
	Diameter	Cubic Feet	Dry Weight Load	Weight Before Extraction	Weight After Extraction
Solid curb	20"	1.73	25	87.5	37.5
	24"	2.91	40	140	60
	26"	3.31	50	175	75
	28"	4.29	60	210	90
	30"	5.60	70	245	105
Open top	40"	12.3	145	507.5	217.5
	48"	19.1	230	805	345
	60"	32.4	380	1330	570
	72"	46.8	550	1925	825

Source: AIL

An efficient extractor should remove roughly 70 percent of the water in the load. Under-extraction produces wet material, resulting in delays and added costs in the finishing department. When the amount of moisture retained in the load reaches 50 percent of the load's dry weight, it is no longer economically feasible to continue extraction—that is, a dry load of 70 pounds should weigh approximately 105 pounds

on leaving the extractor: 70 pounds dry weight plus 35 pounds retained moisture = 105 pounds. The above table assumes 2.5 pounds of water absorbed by each dry pound of clothes—an average figure. Extraction is continued until moisture retained is equal to 50 percent of dry weight, in this case 80 percent of the water is removed. Weighing a load of known dry weight before and after extraction, a laundry operator can readily check the efficiency of his extractors.

Extractors

Type	Diameter	*RPM	**Dry Load Pounds
Solid Curb	17	1575-1750	12-18
	20	1450-1600	25-30
	26	1200-1400	50
	30	1000-1320	70-80
	40	850-900	150-170
Open Top	48	750-1000	220-270
	50	750-800	320
	54	750	400
	60	600	300

* Approximate—RPMs of similar size extractors of different manufacturers vary.

** Manufacturer's rated capacity.

(Continued on following page)

(Continued from preceding page)

Kilowatt Hours

To Run Extractors a Given Time in Minutes

Time In Minutes	Extractor Diameters						
	20"	24"	26"	28"	30"	40"	48"
1	.042	.050	.071	.083	.095	....	....
2	.048	.069	.082	.095	.108	....	....
3	.055	.079	.092	.107	.122	....	....
4	.062	.088	.103	.119	.135	.46	.65
5	.069	.097	.114	.131	.149	.50	.70
6	.075	.106	.125	.143	.162	.54	.75
7	.082	.116	.135	.155	.175	.58	.80
8	.089	.125	.146	.167	.189	.62	.85
9	.095	.134	.157	.179	.202	.66	.90
10	.102	.144	.167	.192	.216	.70	.95
11	.109	.153	.178	.204	.229	.74	1.00
12	.115	.162	.189	.216	.242	.78	1.05
13	.122	.171	.199	.228	.256	.82	1.10
14	.129	.181	.210	.240	.269	.86	1.15
15	.135	.190	.221	.252	.283	.90	1.20
16	.142	.199	.232	.264	.296	.94	1.25
17	.149	.209	.242	.276	.309	.98	1.30
18	.155	.218	.253	.289	.323	1.02	1.35
19	.162	.227	.264	.300	.336	1.06	1.40
20	.169	.237	.275	.312	.350	1.10	1.45

Source: AIL

The table records kilowatt hours required for extractors of various sizes at increasing running times. A 48" machine draws 1.45 K.W. hours for a 20-minute extraction period; at 2 cents a K.W. hour the power cost is 2.9 cents for the load.

Extractor Speeds and Centrifugal Force

Type	Size Basket Diameter	Basket Speed		Centrifugal Force Lbs. Exerted on Each Lb. of Water	
		Regular R.P.M.	High R.P.M.	Regular	High
Open top	40"	850	....	410#	....
	48"	750	....	384	....
	60"	550	....	258	....
	72"	450	....	207	....
Solid curb	20"	1500	2000	640	1132#
	24"	1300	1700	580	980
	26"	1200	1600	532	966
	28"	1100	1500	480	896
	30"	1000	1320	426	742

Source: AIL

Extractor revolutions per minute and pounds of centrifugal force decrease with increasing capacities. Heavier loads require longer extraction periods, although periods required will vary with atmospheric conditions and class of work handled. Wet wash should run about 10 to 12 minutes in a 30" extractor and 15 minutes in a 48" extractor.

Releasing Suction

Safe pulling of clothes from centrifugal extractors can be accomplished with ease if a strip of cover duck three or four inches wide is placed across the entire bottom and up the sides of the basket before the load is put in. Give one end of this strip a pull and the suction created by the centrifugal action will be released with no strain on the garments or nets. This suction is always heavy and garments should always be released from it, then lifted out. To "pull a load" shouldn't be taken literally.

Tumblers

Loads, Steam and Electrical Consumption

Type	Size	Per Load			Per Hour (Two Loads)		
		Dry Load, Pounds	K.W. Hours	Pounds Steam	Dry Load, Pounds	K.W. Hours	Pounds Steam
Open End	26 x 18	20	.11	22	40	.23	44
Open End	36 x 24	26	.15	29	52	.30	58
Utility	36 x 30	32	.35	30	64	.70	60
Utility	36 x 38	52	.56	48	104	1.12	96
Utility	36 x 36	40	1.15	80	80	2.30	160
Utility	36 x 48	55	1.70	110	100	3.40	220
Utility	42 x 42	70	.93	82	140	1.86	164
Utility	42 x 60	100	1.35	117	200	2.70	234
Utility	42 x 90	150	2.00	175	300	4.00	350
Utility	42 x 120	200	2.70	233	400	5.40	466

Source: AIL

Capacities, power consumption and steam requirements for tumblers of various sizes are important in planning future expansions or computing costs. A 42 x 90 tumbler requires 175 pounds of steam per load and at two cents a K. W. hour will produce 150 pounds of clothes at a power cost of four cents.

Twin Cylinder and Non-Cylinder Tumblers

Type	*Dry Load Pounds	Size	*Drying Time Lbs./minute
Twin	15/cyl.	26 x 24	*5-25
Non-Cyl.	10/cyl.		10
Non-Cyl.	20/cyl.		10

* Manufacturer's Rated Capacity.

Conditioning Tumblers

Size	*Dry Load Pounds	*Loads Per Hour
**34 x 72	800 lbs./hour	
48	30 lbs./load	30
48	30 lbs./load	30
48	30 lbs./load	30
48	30 lbs./load	30
**48 x 84	1,500 lbs./hour	
**60 x 96	3,500 lbs./hour	
72	200 lbs./load	20

* Manufacturer's rated capacity.

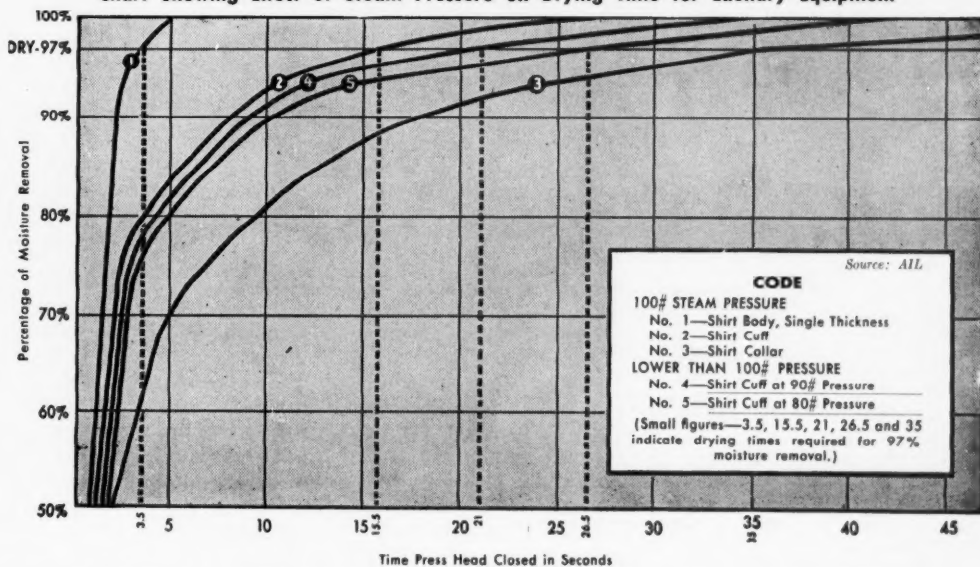
** Continuous shakeout and conditioning tumblers.

Small Gas, Steam or Electric Heated

Heat sources: 1 = gas or electric; 2 = steam; 3 = gas.

Size (in.) and heat source	Speed range (feet per minute)	Rolls
48-1	14	1
50-1, 2	12	3
54-3	11	1
56-1, 2	14	1
60-3	6-24	3
66-2	11	1
75-1, 2	12	3
80-2, 3	6-18	1-5
85-3	8-24	5
100-1, 2	6-48	1-4
104-1	5-30	5-7
110-2, 3	8-48	4
120-2	7-52	2-4
132-2	15-45	2-4

Chart Showing Effect of Steam Pressure on Drying Time for Laundry Equipment



Establishing 97 percent moisture removal as proper for actual laundry operation, the chart indicates the importance of adequate steam pressure at the equipment in promoting speedy and effective drying. Note for example, that at 80 pounds pressure, drying time of 26.5 seconds for a shirt cuff is 70.9 percent greater than the time of 15.5 seconds at 100 pounds pressure. Presses used in these tests were covered with new padding. Inadequate padding retards drying time as much as 3 percent of moisture removal for a definite interval of time. For example, using new padding, 97 percent of the moisture was removed from cuffs in 15.5 seconds at 100 pounds pressure. Using old padding, about 94 percent of moisture would have been removed in the same interval of time and a similar working steam pressure.

Approximate Flatwork Ironer Production Sheets Per Minute

Feeding selvage first, allowing 1 foot between each sheet, 2/3 and full apron speeds, steam at 100 lbs. pressure, 100 percent quality

Type	54" Sheets		63" Sheets		72" Sheets		81" Sheets		90" Sheets	
	2/3	Full	2/3	Full	2/3	Full	2/3	Full	2/3	Full
Handy		2.00		1.76		1.57		1.42		1.29
Chest	2 roll	2.00	4.00	1.76	3.52	1.57	3.14	1.42	2.84	1.20
	4 roll	4.84	7.28	4.28	6.40	3.81	5.72	3.45	5.17	3.14
	6 roll	7.28	10.90	6.40	9.60	5.72	8.57	5.17	7.75	4.71
Double Cylinder	8 roll	9.80	14.55	8.64	12.80	7.70	11.42	6.97	10.32	6.36
	24"	7.28	10.90	6.40	9.60	5.72	8.57	5.17	7.75	4.71
	30"	7.28	10.90	6.40	9.60	5.72	8.57	5.17	7.75	4.71
Single Cylinder	48"	7.28	10.90	6.40	9.60	5.72	8.57	5.17	7.75	4.71
	16" x 100"		2.73		2.40		2.14		1.93	
										1.77

Source: AIL

Approximate Flatwork Ironer Production Pounds Per Hour

Based on not over 50% retention; 100 lb. steam; good trap system

Type	Flat Roll W.A. & Flat	Family Flat Net Ident.	Family Flat Full Ident.	Commercial Flat Sheets, Cases, Etc.
Chest	8 roll	300-330 lbs.	400-485 lbs.	465-530 lbs.
	6 roll	225-250	300-350	350-400
	4 roll	150-165	200-235	270-335
	2 roll	75-85	105-120	140-175
Double Cylinder	30"	175-190	230-270	270-310
	24"	115-130	155-180	180-205
Single Cylinder	48"	160-175	210-245	245-280
	100" x 16"	37-41	50-58	58-66
				66-82

Source: AIL

Production Standards

Because they are the heart of any wage incentive plan, operator production standards are at once the point of highest importance and greatest vulnerability. Production standards for a particular job at a particular plant can be determined *only by time studies conducted for that job at that plant.*

"Standard production is the rate at which a normal average worker performs at an average rate of speed under average working conditions and, as a result, produces an average daily production of average quality. This rate may be expressed in the number of units of output an hour or in the number of hours to produce 100 units."*

Although it is impossible to create a single, inflexible set of standards for all laundries, the figures here are helpful as guides for rough estimation or comparison.

Washroom

Washing and Extracting Crew	Standard Hours Per 100#	Pounds P. O. H.
3	.330	300
3	.385	260
2	.446	224
3	.398	251
4	.359	279
2	.333	300
3	.357	280
2	.287	349

Washroom production standards are difficult to establish even with good time study. In this department the standards differ widely between plants because of substantial differences in equipment, machine loading and workflow. The above table indicates standards determined in average plants washing principally family work.

Press and Hand Touchup Standards

Type of Equipment	Pressing Points	Hand Touchup Points
2 Small Mushrooms and 1 Large Press.	100	100
1 Small Mushroom, 1 Pants Tapper and 1 Large Press.....	100	100
2-No. 165 Presses.....	100	60
2-51" Presses.....	100	60
2-5138 Presses.....	100	60
2-51" x 38" Presses.....	100	60
1 Mushroom and 2 Large Presses.....	100	85 to 100
If the principal press is a flat or square buck press.....	100	50
If largest press in a unit is a 38" press.....	60 to 85	60

All standards in either case of pressing or hand touch-up are for one operator working alone, doing no folding and being served by a service operator. 100 points represent one standard hour for producing 100 units.

If net identification is used, a deduction of 10 percent

on press standards must be made. If garments are segregated to obtain press specialization, an increase of 10 to 15 percent of press standards is to be added. For hand touchup without spray iron, points should range from 80 to 90.

Service operator should be able to serve five operators (standard production—500 points).

Heavy work	20 to 25 pounds
Light work	8 to 10 pounds
Pressing alone	10 to 14 pounds

Assembly and Dispatching

	Production P. O. H.
Fugitives netted, Damp Work packed in cloth bags or packed in wrapping paper. No walking in dispatching work to other departments.....	200 lbs.
Fugitives pinned, Damp Work packed in paper bags, in dispatching work operators walk to other departments.....	160 lbs.
Wrapping Damp Wash and Thrifty, each operator takes down own work.....	20 bundles
Hanging only—Fugitives netted.....	475 lbs.
Fold and wrap Damp Wash & Thrifty Wearing Apparel.....	100 lbs.
Hang, take down and wrap, no folding, pinned Rough Dry Wearing Apparel.....	100 lbs.

Tumblers

Tumbler Size	Capacity	Time
36" x 18"	20 lbs.	30 min.
36" x 24"	26 lbs.	30 min.
36" x 30"	32 lbs.	30 min.
36" x 36"	52 lbs.	30 min.
42" x 42"	70 lbs.	30 min.
42" x 90"	150 lbs.	30 min.

100 pounds per operator per hour
Fold and Wrap (Rough Dry Wearing Apparel)—
750 pieces or 560 pounds per operator per hour
Fold Bath Towels (24" x 44")

A bulk system permits greatest production. Usual time for a tumbler load is 25 to 30 minutes. One operator can usually handle three or four small open-end tumblers—loading, unloading, folding and stacking. For the complete operation a worker should produce about 100 pounds per hour at standard, doing the tumbling and folding, using four tumblers.

Sort, Check and Wrap

(Production Per Operator Per Hour)

Flatwork—40 bundle lot—1 girl sort and check only Fantom Fast.....	365 pieces
Flatwork—100 bundle lot—4 girls sort, check and wrap, black marks.....	350 pieces
Flatwork and W. A.—40 bundle lots—1 girl sort, check and wrap, black marks.....	300 pieces
Flatwork and W. A.—100 bundle lots—1-10 girls, sort, check and wrap, black marks.....	200 pieces
Wearing Apparel.....	135 pieces
Wrap shirts, wearing apparel.....	30-50 bundles

* AIL Special Report No. 141, "Wage Incentives for Power Laundry."

Family Bundle Breakdown

In computing the work load of a plant, it is necessary to know the number of incoming bundles, the average bundle content, and standards for each item.

A few years ago a study was made of the number of common wearing apparel pieces in 2,490 family bundles, shirts and flatwork not included. Percentages of the total number of pieces are shown below.

Items	Percent
Pajama Pieces	19.0
Shorts	17.5
Undershirts and Vests	13.6
Dresses (Women's)	7.9
Aprons	6.4
Unionsuits	4.9
Slacks, Trousers	4.7
Bloomers, Panties	4.4
Blouses (Women's)	4.0
Belts	3.8
Nightshirts and Gowns	3.2
Slips and Petticoats	1.9
Uniforms	1.22
Skirt or Pants (Child's)	1.22
Dresses (Child's)	1.20
Shirts	1.0
Blouses (Child's)	0.8
Sweaters and Polos	.72
Brassieres, Halters	.57
Kimono's	.55
Overalls	.40
Play suits and Rompers	.29
Chemises	.28
Smocks, Gowns	.23
Coats	.14
Neckties	.09

Items such as play clothes and overalls vary considerably throughout the country. It is important, therefore, that individual samplings be made.

Wearing Apparel Points

Men's Garments	Uniforms and Supply
Shirts, long sleeve	3.5
Shirts, polo	2.6
Shirts, sweat	1.4
Overalls	4.2
Coveralls	7.2
Coveralls, pants crease	11.9
Work pants	5.4
Wash pants, linen	6.2
Wash coats	7.3
Wash vests	1.7
Wash ties	1.9
Shorts	1.8
Shirts (under), wet	1.1
Undershirts, tumbled	.6
B. V. D.	3.1
Jockey shorts	.8
Long underwear	3.3
Nightshirts	3.2
P.J. trousers	2.1
P.J. coats, open	2.8
P.J. coats, closed	2.1
Ladies Garments	
Dresses, plain	3.8
Dresses, fancy	5.5
Sport shirts or blouses	3.0
Aprons, waist	1.0
Aprons, open neck tea	2.0
Aprons, closed neck tea	3.0
Wash coats	4.6
Shirts	2.0
Slacks	4.4
Night gowns	3.2
Slips	1.8
Panties	1.6
Long underwear	3.3
Brassieres	1.4
Children's Garments	
Boy's pants	2.5
Boy's long trousers	4.1
Boy's blouses	2.6
Child's washcoats	4.2
Child's bathrobes	2.0
Child's dresses	2.8
Child's panties	1.0

Shirt Production

No. Operators	Description	Shirts P. O. H.
2	Individual collar and cuffs in tandem—fast operators on piece rates. Wide bosom equipment	24
3	Wide bosom equipment	14
6	Wide bosom equipment	16
6	Wide bosom equipment	24
7	Latest bosom equipment. Includes operator on collar pole	14½
8	No collar pole	16
3	Narrow bosom equipment	12
5		
6	Narrow bosom equipment	12
8		
2	Old type collar attached and neckband	15
2	Above, budget bundle quality	20
2	Above, good quality, collar attached only	20
2	Above, good quality, neckband only	12

General Shirt Standards

	Shirts P. O. H.
Completely Machine Finished, New Modern Equip.	23
Gussets Hand-Touched, Unit includes Collar and Cuff, Sleeve, Bosom and Body Yoke Presses	20
Gussets, Yoke and Shoulders Hand-Touched, Unit includes Collar and Cuff, Bosom and Body, and Sleever Presses	17

Identification Production

In Pounds or Pieces Per Operator Per Hour

Identification Dept.	Type of Bundles	Standards
Netting & Classifying	Damp Wash and Thrifty Rough Dry and Finished Family (Deduct 25 lbs. for listing)	240 lbs. 165 lbs.
	Damp Wash, Thrifty, Rough Dry and Finished Family (Deduct 25 lbs. for listing) (Using All Identification Table)	200 lbs.
Bagging	White Work, pin Color for Pocket Washing	350 lbs.
Counting	Commercial Linen Supply Bundle Work	1000 pieces 200 pieces
Marking—Pen & Ink	Rough Dry and Finished Family Bundle Work, Rough Dry and Finished Family Bundle Work	400 pieces 300 pieces 225 pieces 90 lbs.
Marking—Machine	Rough Dry and Finished Family Bundle Work, Rough Dry and Finished Family Bundle Work	425 pieces 325 pieces 250 pieces 25 bundles 450 pieces 350 pieces
Marking—Listing Machine	Rough Dry and Finished Family Bundle Work Finished Family	350 pieces
American Clip System	Finished Family	140 lbs.
Fantom Fast System	Rough Dry and Finished Family	400 pieces
Marking—Dry Cleaning	Take Off Buttons, No Cuff Dusting Take Off Buttons, Measuring	50 pieces 35 pieces

Note: Figures are with bundle Operator. If none is used, deduct 15%.

Flatwork Standards

One eight-roll ironer handles all small pieces and is equipped with a stacker. A small conditioning tum-

bler is used for small pieces such as napkins and barber towels; the tumbler operator's time is charged to the crew. The other eight-roll ironer is equipped with a folder and handles only sheets and tablecloths. No shakeout tumbler is used. On commercial sheets, no attention is paid to what side of the sheet gets ironed, and the machine is run at about 80 feet per minute. Two operators lay the sheets out, two feed and one folds. One stacker takes care of tying, weighing and recording for both machines.

Family sheets are run at about 68 feet per minute and must be ironed on the right side. On small tablecloths, each feeder works independently. Although the folding machine works in two lanes and folds tablecloths fed in this way, two operators are needed on folding. With the regular five-girl crew, the one operator available for preparing the tablecloths is unable to keep up with the rest of the crew. A sixth operator must then be added, or one feeder and folder must come back and prepare pieces in advance.

Typical Flatwork Standards

Crew				Av. Wt. per Bdl.	Mach. Speed	Std. Hours. for 100 lb.	Lbs. Op. Hour
Shaker	Feeder	Folder	Backup				
Family							
2	2	2	1	6R-120"	9.5	2.63	38
2	2	2	1	6R		20'-40'	2.25
2	2	2	1	Wiley Chest Type		21'-32'	2.85
2	2	3		8R-120"		32'	2.272
1	2	2	1	6R-110"	5.97	37'	2.91
2	2	2	1	2-30' Wiley 120"	7.6		3.33
1	2	2	1	6-Roll	6.7	52'	2.70
2	2	2	1	6-Roll 120"	7.8	42'	2.70
1	3	3			7.9		33.2
1	2	2					41.3
	2	2		4-Roll American	Lot 60.6#	15'-24'	1.923
				6R-Watts 120	7.5		2.448
1	3	3	1	2-36"-120"			3.31
							2.22
				Commercial			
2	2	2	1	6-Roll 120"		20'-60'	2.15
1	2	2	1	6-Roll 110"	50.5	37'	2.56
1	2	2	1	2-30' Wiley 120"			2.60
1	3	3			18.3		
1	2	2			18.3		32
	3	3	2	2-30" Watts 120"		32'	2.272
	3	4	2	2-30" Watts 120"			3.06
				6-Roll 120" Watts	28.7		3.82
1	2	2	1	6-Roll American			3.17
							2.632
Family and Commercial Combined							
2	2	2	1	6R-120"			2.56
1	2	2	1	4R	6.7	52'	2.70
2	3	3	2	2-30' Watts	9.4	32'	3.7
1	3	3					2.93
1	2	2					2.51
				6R Watts 120"			3.24
1	3	3	1	6-Roll American 100"			2.50

Average Production on a Typical Ironer

Article	Crew				Mach. Speed	Lbs. for Piece	Std. Hrs. for 100 Pcs.	Pcs. Op./Hr.
	Shaker	Feeder	Folder	Backup				
Sheets	2	2	2	1	40	1.5	2.88	34.7
	2	2	2	1	46	1.44	2.43	41.3
	2	2	2	1	32	1.44	3.60	27.8
	2	2	2	1	60	1.50	1.50	66.6
Pillowcases	2	2	2	1	20	.29	.855	117
	2	2	2	1	23	.29	.885	113
	2	2	2	1	32	.29	.963	104
	0	2	2	0	19	.287	.575	174
Hand Towels	2	2	2	1	40	.17	.40	250
	0	2	2	0	28	.202	.305	328
	2	2	2	1	40	.69	2.66	37.6
Table Linen	2	2	2	1	36	.69	2.76	36.2
	2	2	2	1	21	.69	3.38	29.6
	0	1	2	0	21	.888	1.46	69.9
	2	2	2	1	40	2.30	5.93	16.9
Spreads	2	2	2	1	36	2.34	5.85	17.1
	2	2	2	1	32	2.34	6.95	14.4
	1	3	3	0	60	1.28	1.85	53.9
Small Pieces	2	2	2	1	36	.17	.532	188
	2	2	2	1	32	.17	.50	200

Flatwork Ironer Production

Method	Operators					Lbs. Per Operator Per Hour					
	Shakers	Feeders	Folders	Counters	Hand Ironers	4 Roll	6 Roll	8 Roll	1 Cyl.	2 Cyl.	2 Cyl.
Net	2	2	2			30					
	3	2	2	1	1		35	35	35	35	35
	3	2	2	1	1		38	38		38	38
Fully Identified	2	2	2			40					
	2 1/2	2	2	1*			45	45	40	45	45
	2 1/2	2	2 1/2	1*			45	45		45	45
	4	3	3	1*				50			
	2	2	2	1			50	50		50	50
Commercial	2 1/2	2	2 1/2	1			50	50		50	50
	3 1/2	2	2 1/2	1			50	50		50	50
Linen Supply	2 1/2	2	2 1/2	1			40	40		40	40
Shake Feed	1	2	2	1	1		35	35		35	35
	1	4	2				35	35		35	35
Float Roll	2	2	2	1			32	32			

* Additional folders.

Flatwork Standards

With Folding and Stacking Machines

Service	Piece	Pts. Per Lb.	Lbs. P. O. H.
Commercial	Sheets	.7	143
	Pillowcases	1.2	77
	Tablecloths and aprons	1.9	53
	Small pieces	2.5	40
Family	Sheets	.9	111
	Tablecloths	2.2	45.5
	Small pieces & pillowcases	2.5	40

Flatwork Standards—Family Laundry

Commercial and Linen Supply; 6-Roll Ironer—Shakefeed System; Backfold operator or checker included with crew

Piece	Pieces P. O. H.	Points Per Piece*	Lbs. P. O. H.	Pieces Per 100 Lbs.
Napkins	333	.3	27	1250
Towels	222	.45	31	715
Pillow Cases	91	1.1	46	200
Common Rollers	71	1.4	34	208
Aprons	100	1.0	52	193
Table Pads	25	4.0	50	50
Table Covers	50	2.0	60	83
Spreads, Heavy				
(1st speed)	18	5.5	46	40
Sheets (3rd speed)	40	2.5	60	67
Sheets (4th speed)	55	1.8	83	67
Bonquet Cloths	23	4.3	58	40

* Based on 100 points per operator hour.

Standards and Incentives

Working from extensive time studies conducted on the job, field engineers of the American Institute of Laundering established the following production standards for a typical laundry in the Middle West. Wage incentive payments based on these standards raised the plant-wide production efficiency to 98 percent of standard.

Although careful time studies are necessary before the installation of a workable wage incentive plan, the important factor which must be kept in mind is that of allowing for sufficient flexibility in setting plant standards, in order that adaption of departmental changes may be readily made to the existing system.

A change in plant layout which permits a more effective workflow, the installation of equipment which re-

sults in greater productivity, as well as fashion changes directly affect the criteria set for production under an incentive system.

There are numerous other factors which must be taken into consideration before an incentive plan is installed in a plant. Therefore, arbitrary standards should not be set; as plant conditions change the incentive system in effect must possess that adaptability which will grant the greatest effectiveness.

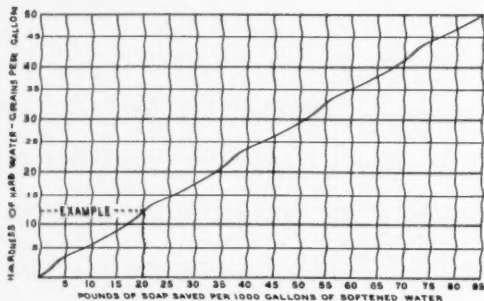
Operator Production Standards

Typical Midwestern Laundry

Operation Name	Standard Units Per Operator Hour
Pin and Net Identification	165 lbs.
Full Identification	145 pcs.
Wash and Extract	200 lbs.
Damp Assembly and Dispatch	190 bdis.
Damp Assembly and Dispatch	4 lots
Starch Wearing Apparel	18 lots
Flatwork Ironing	33.5 lbs.
Tumble	66.5 lbs.
Wearing Apparel Pressing	80 pfs.
Wearing Apparel Touch-Up	80 pfs.
Handkerchief Pressing	166 pcs.
Sock Finishing	140 pcs.
Shirt Finishing (Wor)	22 pcs.
Shirt Finishing (Old American)	16 pcs.
Shirt Shake Out (Prep.)	222 pcs.
Sort and Check (Flatwork and Wearing Apparel Bdis.)	30 bdis.
Wrap	19.6 bdis.
Sort and Check (Family Shirt Bdis.)	240 pcs.
Sort and Check (Bundle Work)	211 pcs.
Sort Flatwork	279 pcs.
Box shirts and Wearing Apparel	272 pcs.
Check and Wrap Flat	239 pcs.
Break and Sort	260 lbs.
Wash	423 lbs.
Extraction	1335 lbs.
Damp Dispatch	490 lbs.
Flatwork Ironing	36 lbs.
Wrap Flatwork	438 lbs.
Handkerchief Pressing	163 pcs.
Tumbling	105 lbs.
Shirt Attaching Clips	120 pcs.
Bundle Work Attaching Clips	184 pcs.
Shirt Finishing	24 pcs.
Wearing Apparel Pressing	100 pfs.
Wearing Apparel Touch Up	100 pfs.
Bundle Work Assembly	214 pcs.
Bundle Work Detaching Clips	204 pcs.
Shirt Assembly	272 pcs.
Shirt Detaching Clips	191 pcs.

Water Supply

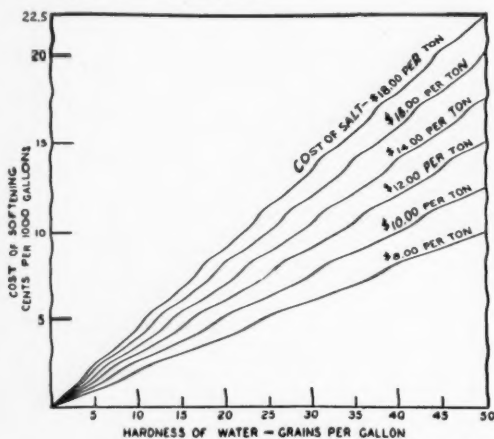
Soft Water Savings



Source: Elgin Softener Corp.

The chart plots the amount of soap saved through the use of soft water in the laundry. From the water hardness scale at the left side of the graph, trace right to the slanting line; this point on the lower, horizontal scale gives the pounds of soap saved per 1,000 gallons of softened water. As the dotted lines show in the chart above, with water of 12 grains hardness, 20 pounds of soap are saved for every 1,000 gallons of soft water used for washing.

Cost of Zeolite Softened Water



Source: Elgin Softener Corp.

With the above chart it is possible to make a rapid estimation of the costs of softening water with a zeolite system. After finding the hardness figure for the water supply in the scale across the bottom of the graph, read up to the diagonal line which gives the local cost of zeolite salt; this point on the left, vertical scale, represents the cost of softening in cents per 1,000 gallons.

What is pH?

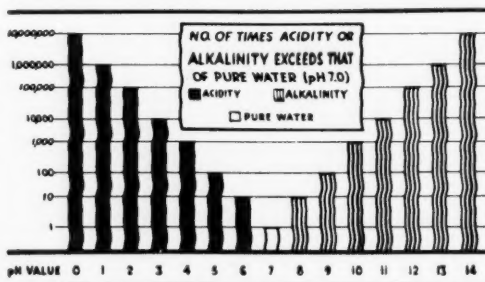
Water is a chemical compound composed of two atoms of hydrogen and one of oxygen (H_2O). One of these hydrogen atoms carries a positive electrical

Mathematical Basis of pH Scale

pH Value	Hydroxyl Ion Concentration (Moles per liter*)	Hydrogen Ion Concentration (Moles per liter*)
14.0	1.0	.0000000000000001
13.0	.1	.000000000000001
12.0	.01	.000000000000001
11.0	.001	.00000000000001
10.0	.0001	.00000000000001
9.0	.00001	.000000000000001
8.0	.000001	.000000000000001
7.0—Water—	.0000001	.0000001
6.0	.00000001	.000001
5.5	.000000001	.00001
5.0	.0000000001	.0001
3.0	.000000000001	.001
2.0	.0000000000001	.01
1.0	.00000000000001	.1
0.0	.000000000000001	1.0

* Since the molecular weight of hydroxyl ions is 17 and of hydrogen ions is 1, the value shown times 17 in the case of hydroxyl ions and times 1 in case of hydrogen ions gives actual grams per liter.

pH Concentration



Note from the figures that each increase or decrease of one pH unit makes a tenfold difference in concentration.

charge and is known as the hydrogen, or H , ion. The other hydrogen atom is combined with the single oxygen atom and this combination, which has a negative electrical charge, is called the hydroxyl, or OH , ion.

Pure water contains equal numbers of H and OH ions. Thus, pure water is neutral since there is a balance between the positive and negative electrical charges. Many substances, when dissolved in pure water, upset the balance between the H and OH ions. When more OH than H ions are present water is alkaline. When more H than OH ions are present water is acid.

The product of the H and the OH ions in a solution remains constant at the same temperature. Doubling the number of H ions halves the number of OH ions, and vice versa. Thus, merely measuring the concentration of H ions tells how acid or alkaline a solution is. For this purpose the pH scale, ranging from 0 to 14, was devised. Titration is a process for measuring the amount of alkali or acid in a solution.

The neutral point on the pH scale is 7. Acidity is measured downward from 7 to 0; alkalinity runs from 7 to 14. It will be noted that the scale is worked out mathematically in such a way that the relation of change between one full number and the next is tenfold, as illustrated in the graph and table on page 78.

Laundry practice has shown that certain OH ion

(alkali) concentrations produce maximum detergent action. Bicarbonate in the water supply and soil in the clothes act as acids and consume OH ions. In the neutralizing of these factors and the achieving of the alkali concentration required, the pH test is a convenient and necessary yardstick for efficient washroom practice.

Proportions Between Feed Pipes and Main Lines
(Number of smaller pipes to equal cross-sectional area of one larger pipe)

Main Line Sizes	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	6
3/4	1											
1	1.6	1										
1 1/4	2.8	1.8	1									
1 1/2	4.5	2.8	1.6	1								
2	7.8	4.9	2.8	1.7	1							
2 1/2	10.6	6.7	3.9	2.4	1.4	1						
3	17.6	11.0	6.3	3.9	2.2	1.6	1					
3 1/2	25	15.7	9.0	5.5	3.2	2.4	1.4	1				
4	39	24.3	13.9	8.6	4.9	3.6	2.2	1.5	1			
4 1/2	52	32	18.5	11.4	6.6	4.8	2.9	2.1	1.3	1		
5	67	42	24	14.7	8.5	6.3	3.8	2.7	1.7	1.3	1	
6	83	52	30	18.5	10.7	7.8	4.8	3.3	2.2	1.6	1.3	1
	105	66	38	23	13.4	9.9	6.0	4.2	2.7	2.0	1.6	1.3
	151	95	54	33	19	14.2	8.6	6.0	3.9	2.9	2.3	1.8
											1.4	1

Source: *ALL*

This table may be used when washer feed pipes of one size only are to be taken from a main line. From the chart 8.6 2-inch pipes are equivalent in cross-sectional area to one 6-inch main. Since the area of the main line ordinarily may be 25 percent less than the total of all pipes running to the washers, ten 2-inch lines may be taken from a 6-inch main.

Temperature Scale Conversions

To convert degrees Fahrenheit to degrees Centigrade, subtract 32 degrees and multiply by five-ninths. To convert Centigrade to Fahrenheit, multiply by nine-fifths and add 32 degrees. The table below gives comparative Centigrade and Fahrenheit readings with elimination of the decimals for degrees Centigrade.

Fahrenheit	Centigrade
Boiling 212°	100° Point
210	99
200	93
190	88
180	82
170	76
160	71
150	65
140	60
130	54
120	49
110	43
100	38
90	32
80	27
70	21
60	16
50	10
40	4
35	2
Freezing 32	0 Point
30	—1
25	—4
20	—7
10	—12
0	—18
—10	—23
—25	—32
—40	—40

Discharge of Cold Water

Flow rated in gallons per minute for pipes of various sizes and water at various pounds of pressure

Water Pressure	3/4 Inch	1 1/2 Inch	2 Inch	3 Inch
15	16.09	83.6	173.5	486.8
20	18.54	100.0	203.0	539.0
30	22.63	122.5	246.0	660.0
40	26.22	141.2	287.4	759.0
50	29.3	157.8	313.2	847.5
60	32.1	173.0	352.2	930.0
70	34.95	187.0	380.8	1002.0
80	37.1	200.0	406.5	1072.5
90	39.39	211.8	443.0	1140.0
100	41.15	223.4	455.1	1200.0

Table of Water Heads and Equivalent Pressures

To estimate any pressure, multiply the head (in feet) by .433. The result is pounds per square inch. For every 2.3 feet the water head is above the discharge 1 pound per square inch is added to the pressure.

Head in Feet	Pressure Pounds Per Square Inch	Head in Feet	Pressure Pounds Per Square Inch	Head in Feet	Pressure Pounds Per Square Inch
5	2.17	125	54.13	550	238.15
10	4.33	150	64.95	600	259.80
15	6.50	175	75.78	650	281.45
20	8.66	200	86.60	700	303.10
30	12.99	225	97.43	750	324.75
40	17.32	250	108.25	800	346.40
50	21.65	275	119.08	850	368.05
60	25.98	300	129.90	900	389.70
70	30.31	350	151.55	950	411.35
80	34.64	400	173.20	1000	433.00
90	38.97	450	194.85	1100	476.30
100	43.30	500	216.50	1200	519.60

(Continued on following page)

(Continued from preceding page)

Dimensions of Standard Wrought Pipe

Adequate water supply in the washroom is dependent upon proper balancing between main lines and washer

Nominal Size in Inches	Actual Inside Diameter (Inches)	Inside Cross-Section Area (Square inches)
1/8	.269	.057
1/4	.364	.104
3/8	.493	.191
1/2	.622	.304
3/4	.824	.533
1	1.049	.864
1 1/4	1.380	1.495
1 1/2	1.610	2.036
2	2.067	3.355
2 1/2	2.469	4.788
3	3.068	7.393
3 1/2	3.548	9.886
4	4.026	12.730
4 1/2	4.506	15.947
5	5.047	20.006
6	6.065	28.891
7	....	38.484
8	....	50.265
9	....	63.617
10	....	79.539

Source: A.I.L.

feeder pipe requirements. A battery of ten washers, six taking 2-inch lines and four taking 1 1/2-inch lines will require a 6-inch main. From the chart, six 2-inch pipes require 6×3.355 square inches + four 1 1/2-inch lines, $4 \times 2.036 = 28.274$ square inches required. A 6-inch pipe has a total cross-sectional area of 28.891 square inches which will allow for possible future expansion.

Since all washers will not be filling at the same time, a 20 to 25 percent reduction in capacity is permissible between the main line and total requirements of all feeder lines. In the case cited above, a five-inch main would provide 30 percent less water than the 6-inch pipe; this might be satisfactory with staggered loads, but it would allow no provision for future expansion and would be inadequate for peak requirements.

Expansion of Pipe

Increase in length inches per 100 ft.

Temp. °F.	Steel	Wrought Iron	Brass or Copper	Temp. °F.	Steel	Wrought Iron	Brass or Copper
20	.15	.15	.25	220	1.80	1.85	2.65
40	.30	.30	.45	240	2.00	2.05	2.90
60	.45	.45	.65	260	2.15	2.20	3.15
80	.60	.60	.90	280	2.35	2.40	3.45
100	.75	.80	1.15	300	2.50	2.60	3.75
120	.90	.95	1.40	320	2.70	2.80	4.05
140	1.10	1.15	1.65	340	2.90	3.05	4.35
160	1.25	1.30	1.90	360	3.05	3.25	4.65
180	1.45	1.50	2.15	380	3.25	3.45	4.95
200	1.45	1.65	2.40	400	3.45	3.65	5.25

Allowance for expansion in any given run of pipe is dependent upon the variations in temperature to which the pipe will be subjected. The table gives expansion in inches per 100 feet of different type pipes at various degrees temperature. To compute the amount of expansion to be provided in specific lengths of pipe, read from the table the figure showing maximum expansion for 100 feet at the temperature expected. Divide this figure by 100 to determine the expansion per foot and multiply by the length of pipe under consideration. For example, 80 feet of steel pipe taking water at 180 degrees Fahrenheit will require an allowance of 1.16 inches for

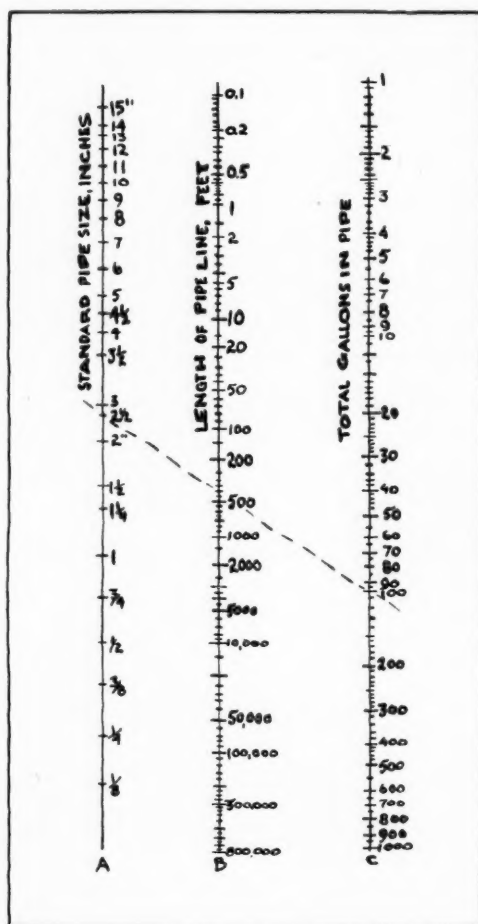
expansion — (1.45, from the chart, $\div 100 \times 80 = 1.16$ inches.)

Locating Leaks and Stoppages

This chart provides a handy means of locating leaks or stoppages in concealed pipe. It is based on a standard formula for computing the length of standard pipe knowing the number of gallons of water it holds.

To use this chart simply run a straight line through the pipe size column A, and the gallons of water in the pipe, column C, and the intersection of column B immediately gives the length of the pipe.

To locate concealed leaks, fill the pipe with water until it overflows. Close all valves which hold the water against gravity. Then do nothing for a number of hours, possibly overnight, depending upon the size of the leak and the rate at which the water level in the pipe falls. In other words, allow as much water to leak out as can



leak out. The water will fall in the pipe, of course, until the level reaches the point of leakage. Refill the pipe with water, noting the exact amount of water poured into the pipe. Draw a line on the chart from the pipe

size, column A, to the total number of gallons poured in the pipe column C; the intersection in column B is the distance to the point of leakage. A similar method is often applicable to pipes that are stopped up. You can readily calculate the distance to the point of stoppage.

For example: the dotted line drawn across this chart shows that if the pipe size is $2\frac{1}{2}$ inches, column A, and if 100 gallons of water are poured into the pipe, column C, the trouble is 400 feet away, column B.

Measuring Pump Efficiency

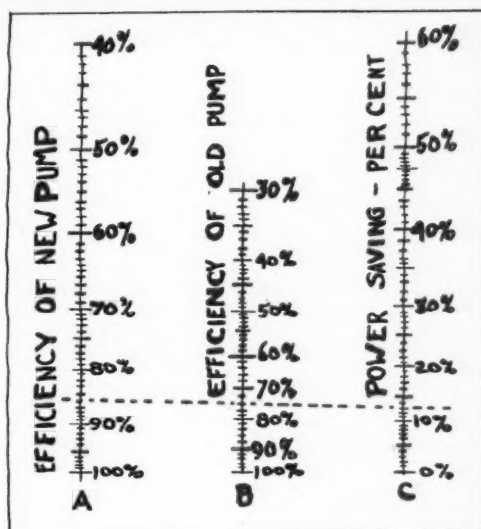
In comparing efficiency of pumps, users often make the mistake of subtracting the efficiency of the old pump from the efficiency of the new pump and calling the difference the improvement in efficiency. The correct method is to subtract the two efficiencies, and then divide the difference by the efficiency of the new pump.

If the efficiency of a present pump is 74 percent and installation of a new pump at 85 percent efficiency is planned, the change will not be worth just 11 percent. Efficiency will improve 13 percent, and it will cost 13 percent less to operate the new pump. For example:

$$0.85 - 0.74 = 0.11$$

$$0.11 \div 0.85 = 0.13$$

The accompanying chart facilitates determination of increases in efficiency without any longhand figuring. Simply run a straight line through the efficiency of the new pump, column A, and the efficiency of the old pump, column B, and the power saving or im-



provement in efficiency is given in column C. The dotted line here runs from the 85 percent efficiency of the new pump through the 74 percent efficiency of the old, and shows in column C that the power saving is 13 percent.

Useful Information

Discharge of Air Through an Orifice

In cubic feet of free air per minute at standard atmospheric pressure of 14.7 lbs. per sq. in. absolute and 70° F.

Gauge Pressure Before Orifice in Pounds Per Sq. In.	Diameter of Orifice in Inches											
	1/64	1/32	1/16	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1
15	.105	.420	1.68	6.72	26.9	60.5	108	168	242	329	430	672
20	.123	.491	1.96	7.86	31.4	70.7	126	196	283	385	503	786
25	.140	.562	2.25	8.98	35.9	80.9	144	225	323	440	575	898
30	.158	.633	2.53	10.1	40.5	91.1	162	253	365	496	648	1013
35	.176	.703	2.81	11.3	45	101	180	281	405	551	720	1125
40	.194	.774	3.10	12.4	49.6	112	198	310	446	607	793	1239
45	.211	.845	3.38	13.5	54.1	122	216	338	487	662	865	1352
50	.229	.916	3.66	14.7	58.6	132	235	366	528	718	938	1466
60	.264	1.06	4.23	16.9	67.6	152	271	423	609	828	1082	1691
70	.300	1.20	4.79	19.2	76.7	173	307	479	690	939	1227	1917
80	.335	1.34	5.36	21.4	85.7	193	343	536	771	1050	1371	2142
90	.370	1.48	5.92	23.7	94.8	213	379	592	853	1161	1516	2369
100	.406	1.62	6.49	26.0	104	234	415	649	934	1272	1661	2595
110	.441	1.76	7.05	28.2	113	254	452	705	1016	1383	1806	2822
120	.476	1.91	7.62	30.5	122	274	488	762	1097	1494	1951	3048
125	.494	1.98	7.90	31.6	126	284	506	790	1138	1549	2023	3161

Table is based on 100% coefficient of flow. For well-rounded entrance multiply values by 0.98. For sharp-edged orifices a multiplier of 0.65 may be used for approximate results.

Source: "Compressed Air Data"

Computing Capacities of Tanks and Jars

Square or rectangular

1. To compute cubic contents multiply length by width by depth. For example, the cubic contents

of a tank 10 feet long, 6 feet wide and 4 feet deep is 240 cubic feet.

2. Since 1 cubic foot equals $7\frac{1}{2}$ gallons, the tank above would hold 1,800 gallons. ($7\frac{1}{2} \times 240 = 1,800$ gallons.)

(Continued on following page)

(Continued from preceding page)

Cylindrical or round

1. Square the diameter and multiply by .7854 and then multiply by the length or depth to obtain cubic contents. Capacity of a cylindrical tank 4 feet in diameter and 6 feet in length is 75.3984 cubic feet. ($4 \times 4 \times .7854 \times 6 = 75.3984$ cubic feet.)
2. With $7\frac{1}{2}$ gal. per cubic foot the tank would hold 565.49 gal.

Note. When dimensions include both feet and inches or inches alone reduce all to feet or to inches before multiplying. If measurements are all in inches, the answer will be cubic inches. To reduce cubic feet to cubic inches multiply by 1728. (1728 cubic inches = 1 cubic foot.)

Conversion Ratios

- 1 gallon of water weighs 8.34 pounds.
- 1 gallon of water contains 231 cubic inches.
- 1 cubic foot of water equals 7.5 gallons.
- 1 cubic foot of water weighs 62.5 pounds.
- 1 horsepower equals 746 watts.
- 1 boiler horsepower equals 34.6 pounds of water evaporated per hour from and at 212 degrees Fahrenheit.

	Multiplied by	Equals
Diameter of circle	3.1416	Circumference of circle
Diameter of circle squared	.7854	Area of circle
Gallons of water	.1377	Cubic feet
Cubic feet of water	62.5	Pounds of water
Gallons of water	8.34	Pounds of water
Feet head of water	.433	Pounds of pressure
Pounds pressure of water	2.31	Feet head
Feet head	.52	Pounds of pressure
(brine sp. gr. 1.21)		
Boiler horsepower	.069	Gallons feed water required per minute
Pounds pressure (brine)	1.92	Feet head
Feet head	.325	Pounds pressure
(gasoline sp. gr. .75)		
Pounds pressure (gasoline)	3.08	Feet head
Inches vacuum	1.132	Feet head
Feet suction lift	.882	Inches vacuum

Rules for Belts and Pulleys

To Find the Lengths of Belts: Add the diameter of the two pulleys together, multiply by $3\frac{1}{4}$ and divide the product by two. Add twice the distance between the center of the shafts to the quotient and that will be the length required.

To Calculate the Power of Belts: The horsepower of any belt equals its velocity in feet per minute multiplied by its width and divided by 1,000 for single and 700 for double belts. 1 inch single belt, velocity 1,000 ft. per minute equals 1 horsepower. 1 inch double belt, velocity 700 ft. per minute equals 1 horsepower.

To Find the Diameter of Driving Pulley: Multiply diameter of driven pulley by the number of revolutions per minute and divide by the number of revolutions of driver. Quotient will be diameter of the driver.

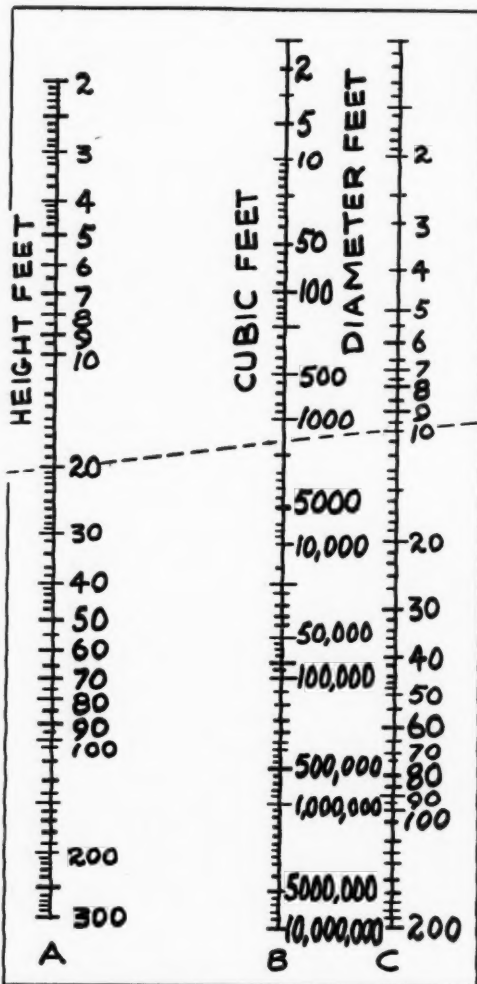
To Find the Speed of Driving Pulley: Multiply diameter of the driven pulley by its revolutions per minute and divide by diameter of driver. Quotient will be number of revolutions of driver.

To Find Diameter of the Driven Pulley: Multiply diameter of driver by its number of revolutions per minute and divide by number of revolutions of the driven. Quotient will be diameter of driven pulley.

To Find Speed of Driven Pulley: Multiply diameter of driver by its number of revolutions per minute and divide by diameter of driven. Quotient will be number of revolutions of driven.

Computing Cubic Feet in Tanks

Draw a line across the chart connecting the height of the tank with its diameter. The intersection of this line with column B gives the capacity in cubic feet without further calculations.



For example: a tank 20 feet high, column A, and 10 feet in diameter, column C, is indicated to have a capacity of a little over 1500 cubic feet, column B.

Power Plant

Boiler Efficiency

The operator of the average small plant doesn't have the time or money nor does he even need the skill to run a series of elaborate tests and go through cumbersome tables to check on his boiler efficiency. In fact, using what the engineer calls nomographs or alignment charts* is even more accurate and requires much less involved calculations.

Here are the steps you take:

1. Find dry flue-gas loss for the particular fuel you're using (Figs. 1-5).
2. Get the hydrogen loss either on the weight basis (Fig. 6) or volume (Fig. 7). Hydrogen ranges for the various fuels are given in the table below.

Hydrogen Ranges

(Range of hydrogen percent, pounds of air, and CO₂ percent for zero excess air for typical solid and liquid fuels)

Fuel	Range of per- cent hydrogen	Range of lb. of atmos- pheric air at zero excess air per 10,000 B.t.u.	Range of CO ₂ percent at zero excess air
Anthracite	1.8-2.9	7.81-7.93	19.3-20.0
Semianthracite	3.2-3.4	7.68-7.82	19.1-19.2
Low-volatile bituminous ..	3.9-4.5	7.62-7.73	18.5-18.8
Medium-volatile bituminous ..	4.7	7.77	18.5
High-volatile bituminous A ..	4.6-5.9	7.51-7.73	17.7-18.7
High-volatile bituminous B ..	4.2-5.0	7.56-7.73	18.0-18.7
High-volatile bituminous C ..	4.0-4.6	7.54-7.67	18.0-18.7
Subbituminous	3.8	7.56-7.57	19.1-19.2
Lignite	2.8-3.1	7.47-7.52	19.2-19.5
Coke	0.5-3.2	7.63-8.13	19.3-20.7
Softwoods	5.8-7.02	7.05-7.22	18.7-20.4
Hardwoods	6.02-6.93	7.09-7.28	19.5-20.5
Bagasse	5.89-6.56	6.25-6.99	19.4-21.0
60° API, gasoline	14.8	7.46	14.87
45° API, kerosene	14.0	7.42	15.12
30° API, gas oil	12.8	7.45	15.48
15° API, fuel oil	11.5	7.58	15.90

Source—Combustion Engineering

3. Find moisture in fuel loss (Fig. 8).
4. Find moisture in air loss (Fig. 9).
5. Find unconsumed carbon in flue gas loss (CO) (Fig. 10).
6. Find unconsumed carbon in refuse loss (ash loss) (Fig. 11).
7. Radiation loss is somewhat difficult to set for small boilers so use 3% at full load; 4.5% at half; 6% at quarter load.

Add steps 1-7 (they are in B.t.u.); subtract from the B.t.u. output per unit of fuel. (For oil it's about 19,000 B.t.u. per lb., Fig. 3.) The subtracted number divided by the full B.t.u. output per unit of fuel gives the boiler efficiency.

On the sample figures shown (Figs. 1-5), let's pick fuel oil, Fig. 3. Here we start with a CO₂ reading of

*Source—Fuels and Combustion Handbook, Johnson and Auth, McGraw-Hill Book Co.

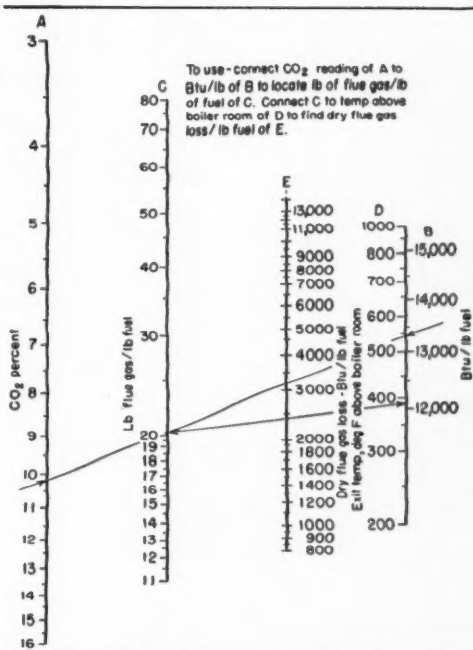


FIG. 1. Dry flue-gas loss—anthracite

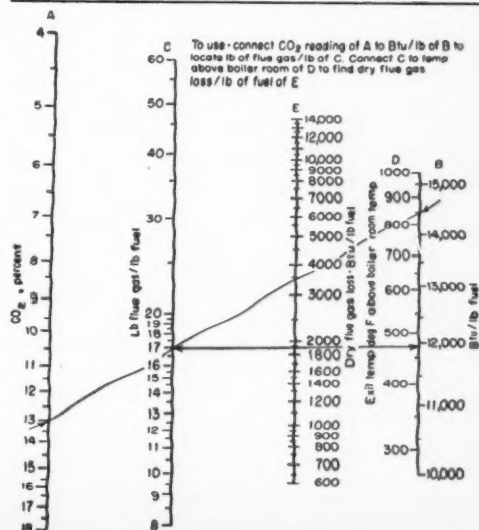


Fig. 2. Dry flue-gas loss—bituminous coal

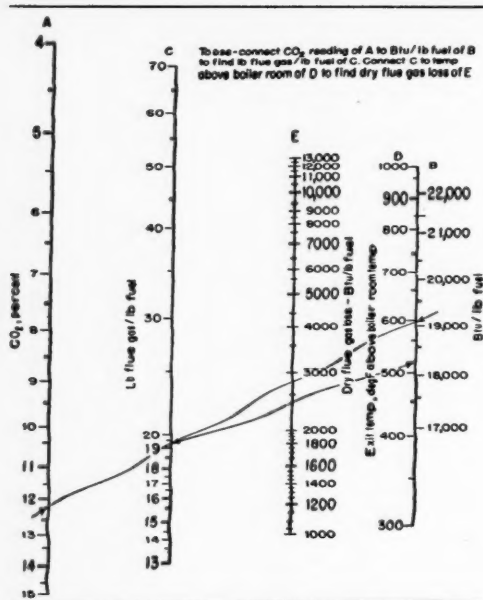


FIG. 3. Dry flue-gas—fuel oil

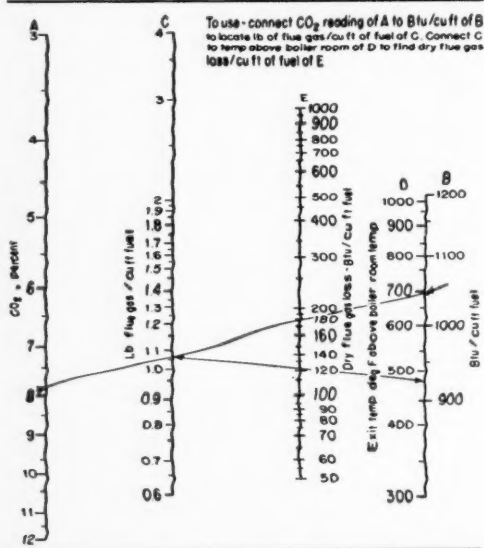


FIG. 4. Dry flue-gas loss—natural gas

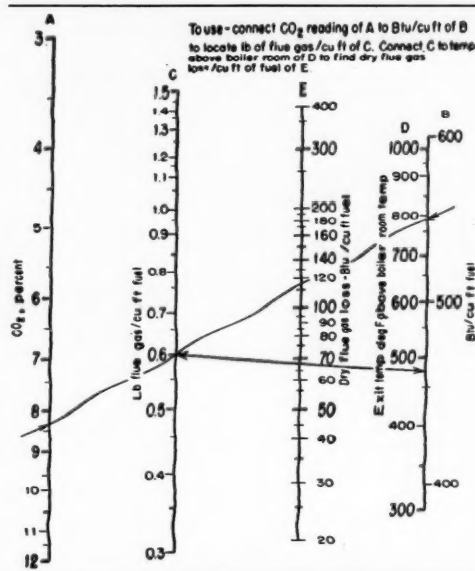


FIG. 5. Dry flue-gas loss—oil gas (Pacific Coast)

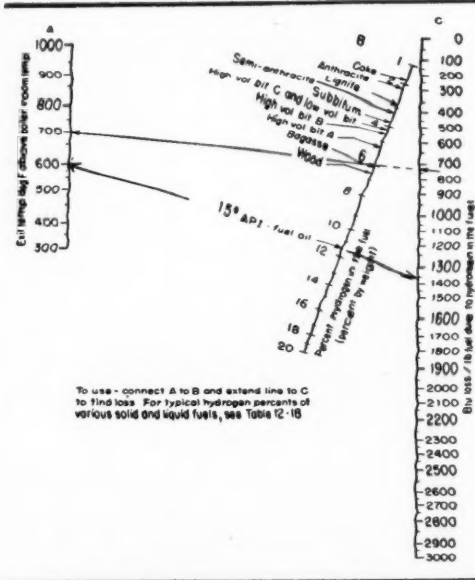


FIG. 6. Heat loss due to hydrogen in the fuel

12.25%, scale A, and the fuel oil dealer tells us our oil has 19,000 B.t.u. per lb., scale B. Draw a line between the two points. Where it crosses scale C we have the lb. of flue gas developed for every lb. of oil we burn. We look at the temperature of the flue gas leaving the boiler, subtract room temperature to get scale D, exit temperature of flue gas. We connect the two points, stack temperature, scale D, and lbs. of flue gas per lb.

of fuel, scale C. Where this line crosses scale E we have the B.t.u. loss, Step 1 of our efficiency check.

For Step 2 we take our stack temperature 600, scale D, Fig. 3, and start with it on scale A, Fig. 6. Go from there to scale B for the fuel oil we're using and go right through that point to scale C. Pick off this reading and we're ready for Step 3.

In Fig. 8 you would start again with stack tempera-

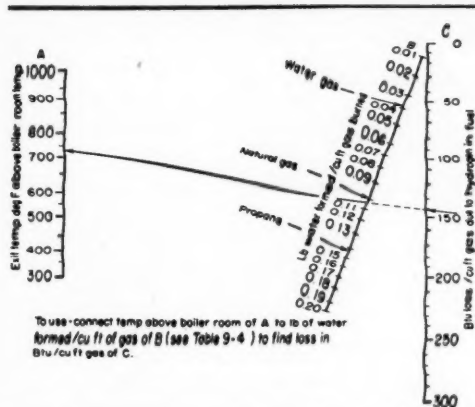


FIG. 7. Heat loss due to hydrogen in gas (volume basis)

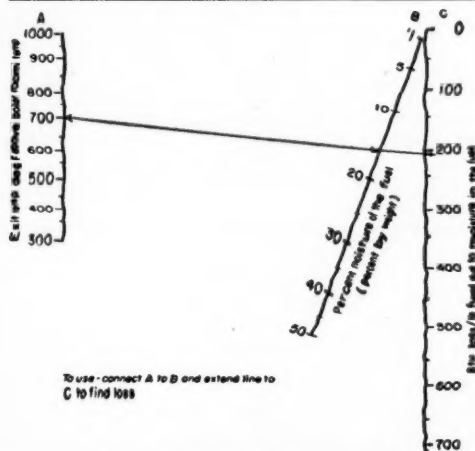


FIG. 8. Heat loss due to moisture in the fuel

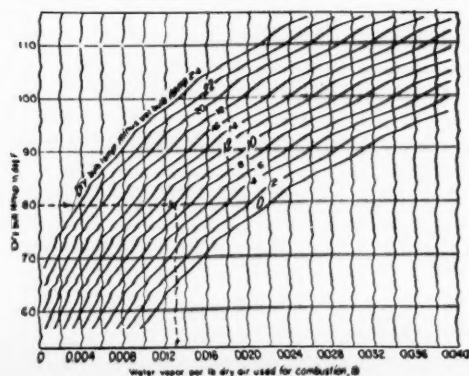


FIG. 9A. Water vapor per pound of dry air used for combustion (pounds)

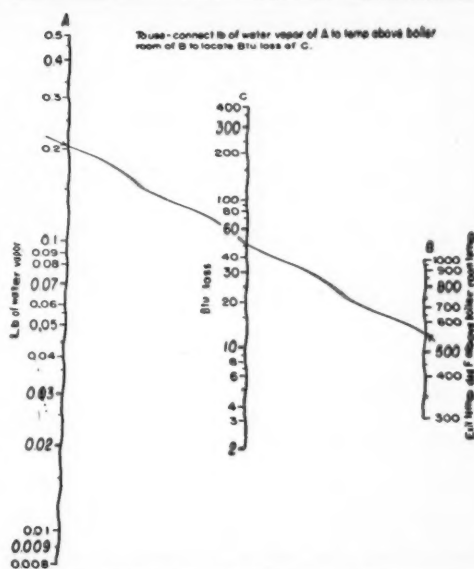


FIG. 9. Heat loss due to heating water vapor

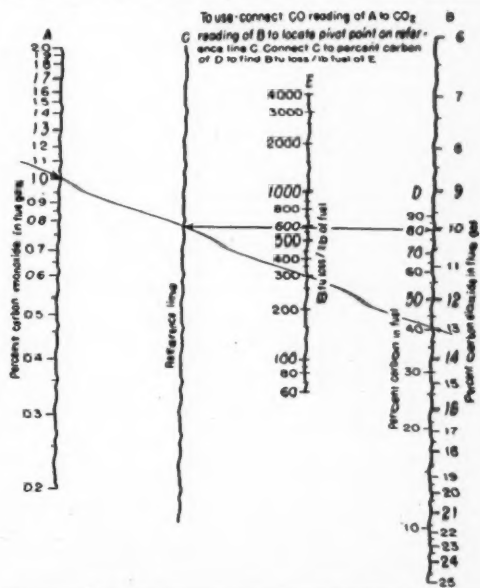


FIG. 10. Loss due to incomplete combustion of carbon as carbon monoxide in stack

ture, 600, scale A, and go over to the moisture you knew was in the oil. But with No. 1 and 2 fuel oil this moisture content is negligible so your losses here are zero.

For Step 4, moisture in air loss, you'd have to have a wet bulb and a dry bulb reading. Your local weather bureau could tell you that at the time you ran a test and it would be perfectly all right if you pulled your air for

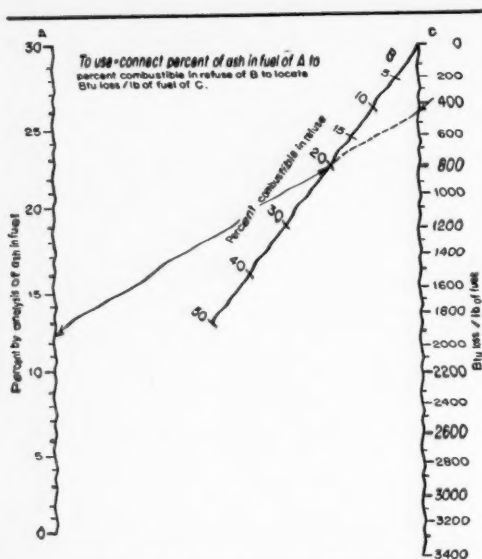


FIG. 11. Loss due to unconsumed carbon in the refuse

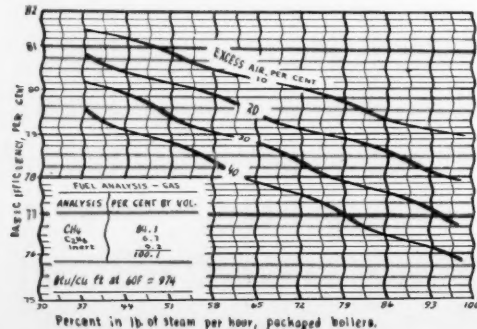
combustion from outside. If not, you should have a reading taken and use Fig. 9A. With this figure move over to Fig. 9, scale A. Cross over from there to stack temperature and where you moved across scale C you'll find the loss for Step 4.

In Fig. 10 start out on scale B with the CO₂ reading you had, Fig. 3. With good mixture your CO₂ scale A, should be practically zero. For fuel oil, unless you're in bad trouble, that's what you'll have and you can pretty nearly always skip Step 5. We show it for use with other fuels or for cases of real trouble.

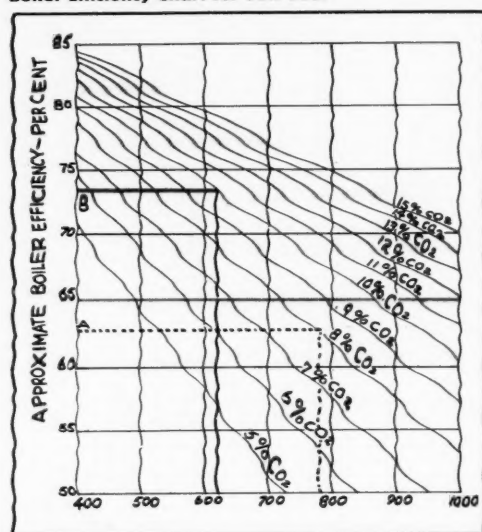
Similarly, for Step 6 the amount of fuel loss in refuse with No. 1 or 2 oils is too small to measure. But the chart (Fig. 11) is used for coal particularly. Get from your coal dealer the figure for scale A. You'd have to send a sample of your ashes to a laboratory to get scale C. Then you'd connect the two points as in the other charts and where you cross the scale B you'd pick off your loss from this cause.

For Step 7 you would use the figures suggested for the load you're carrying on the boiler.

Boiler Efficiency Chart for Gas

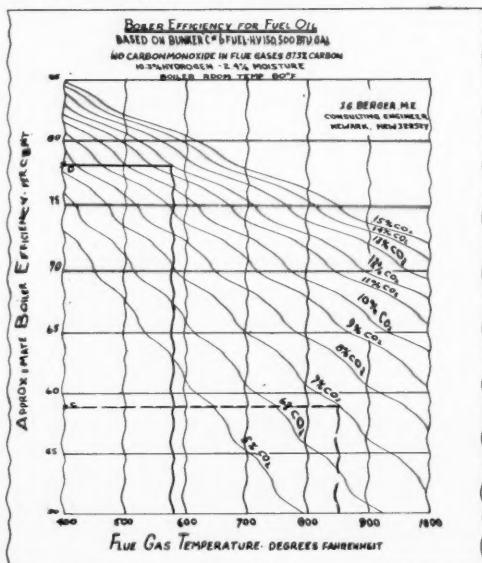


Boiler Efficiency Chart for Soft Coal



Based on flue gas temperature and CO₂ content, the chart provides an approximate efficiency rating for coal-fired boilers. To compute the efficiency of an installation with a flue temperature of 620 degrees and CO₂ content of 10 percent, trace up from the 620 point at the bottom of chart to the diagonal line representing 10 percent; intersection gives approximate boiler efficiency rating of 73.5 percent

Boiler Efficiency Chart for Fuel Oil



Flue gas temperature and CO₂ content known, and flue gas temperature on lower scale, and follow up to diagonal line designating CO₂ percentage; point of intersection at left gives approximate boiler efficiency. Dotted line "C" illustrates that boiler with flue temperature of 850 degrees and 7 percent CO₂ content will have efficiency of approximately 58.5 percent. Lowering temperature to 580 degrees and increasing CO₂ to 12 percent would bring boiler efficiency up to 78.5 percent as shown by solid line "D"

Storage Heater Requirements

General Ldy.				Wet & Family			Flat Work Ldy.		
Number Washers	Gallons Per Hour	Engine Horsepower	Storage Size (Gallons)	Gallons Per Hour	Engine Horsepower	Storage Size (Gallons)	Gallons Per Hour	Engine Horsepower	Storage Size (Gallons)
1	Small 75	3	100	100	4	100	150	6	100
	Med. 100		150	150		150	250		150
	Big 140	5	200	210	6	175	350	8	175
2	Small 150	5	150	200	6	150	300	8	150
	Med. 200		200	300		175	500		175
	Big 280	8	250	420	9	200	700	11	200
3	Small 225	8	250	300	9	200	450	10	200
	Med. 300		300	450		250	750		250
	Big 420	12	400	630	11	300	1050	13	300
4	Small 300	9	300	375	11	250	575	12	250
	Med. 400		400	575		300	950		300
	Big 550	15	500	800	14	400	1350	16	400
5	Small 350	12	400	450	12	300	700	14	300
	Med. 475		500	700		400	1150		400
	Big 675	20	600	970	16	500	1650	20	500
6	Small 400	18	500	525	15	400	825	16	400
	Med. 550		600	825		500	1350		500
	Big 775	25	700	1140	20	600	1950	23	600
7	Small 450	20	600	600	16	500	950	18	500
	Med. 625		700	950		600	1550		575
	Big 900	30	800	1300	20	700	2250	25	650
8	Small 500	25	700	675	18	600	1075	20	575
	Med. 700		800	950		700	1750		650
	Big 1015	35	900	1450	25	800	2525	28	725
9	Small 550	30	800	750	20	700	1200	25	650
	Med. 775		900	1075		800	1950		725
	Big 1125	38	1000	1600	28	900	2800	33	800
10	Small 600	35	1000	850	25	800	1325	27	725
	Med. 850		1100	1200		900	2150		800
	Big 1240	45	1200	1750	33	1000	3075	37	875
11	Small 650	40	1100	925	28	900	1450	30	800
	Med. 925		1200	1325		1000	2350		875
	Big 1350	50	1300	1900	35	1100	3350	40	950
12	Small 700	45	1300	1000	30	1000	1575	35	875
	Med. 1000		1400	1450		1100	2550		950
	Big 1460	60	1500	2050	38	1200	3600	45	1025

Source: Whitlock Mfg. Co.

Although no definite rule can be applied to the selection of the proper storage heater to cover conditions in every laundry, this table indicates requirements usually applicable to various types and sizes of plants. Output in gallons per hour is figured for a temperature increase of from 40 degrees to 180 degrees Fahrenheit. Heating

to 160 degrees, it is possible to obtain one-fifth more water with the same engine and heating unit. In those plants where a preheater is used and water comes to the storage heater at temperatures well above 40 degrees, proper allowance must be made in the size of heater selected.

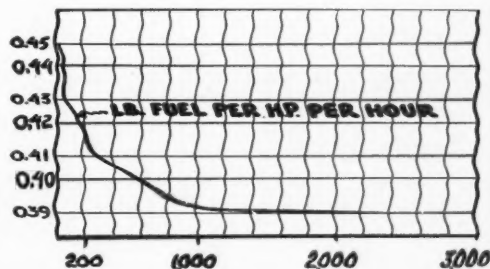
Diesel Fuel Consumption

The accompanying chart plots approximate fuel consumption of various diesels, based on prewar diesel efficiencies.

For instance, if requirements are very small—50 horsepower or even less—figure on a fuel consumption of 0.45 pounds per horsepower per hour with a modern engine. If a 100 h.p. diesel is employed, the consumption will be about 0.42 pounds per horsepower per hour. The curve shows that with increase in engine size the fuel consumption improves rapidly from the smallest sizes to 200 horsepower. From 200 to 1,000 horsepower the improvement is less rapid. And from 1,000 to 3,000 horsepower the improvement is very slight; it is practically 0.39 pounds per horsepower per hour for all of the sizes in that range.

To determine the efficiency of any engine size, with any fuel, multiply the B.t.u. value of the fuel per pound by the number of pounds per horsepower per hour and divide the product into 2,546.

For example, if the fuel contains 20,000 B.t.u. per pound and requirements call for a 500 h.p. engine,



multiply 20,000 by (from the chart) 0.40, which gives 8,000 as the product. Now divide 2,546 by 8,000 and it will be found that the engine will have an efficiency of 31.8 percent, which is a high efficiency as compared with most engines of other types. This means that 31.8 percent of the heat contained in the fuel will be converted into work. Even at 0.45 pounds of fuel per horsepower per hour, other conditions being the same, efficiency will be 28.3 percent.

Steam Cost Chart

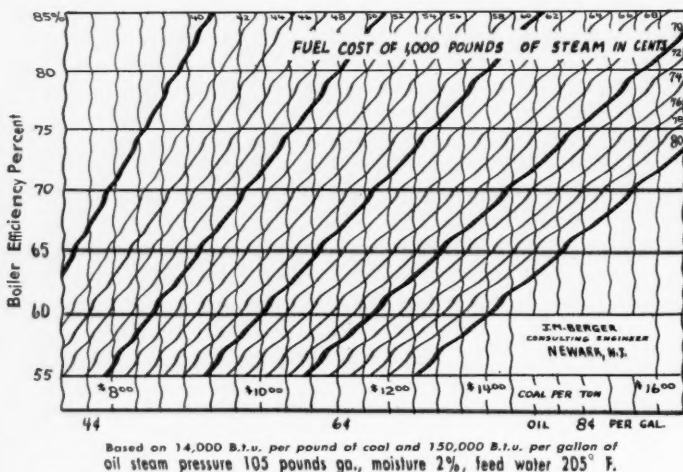
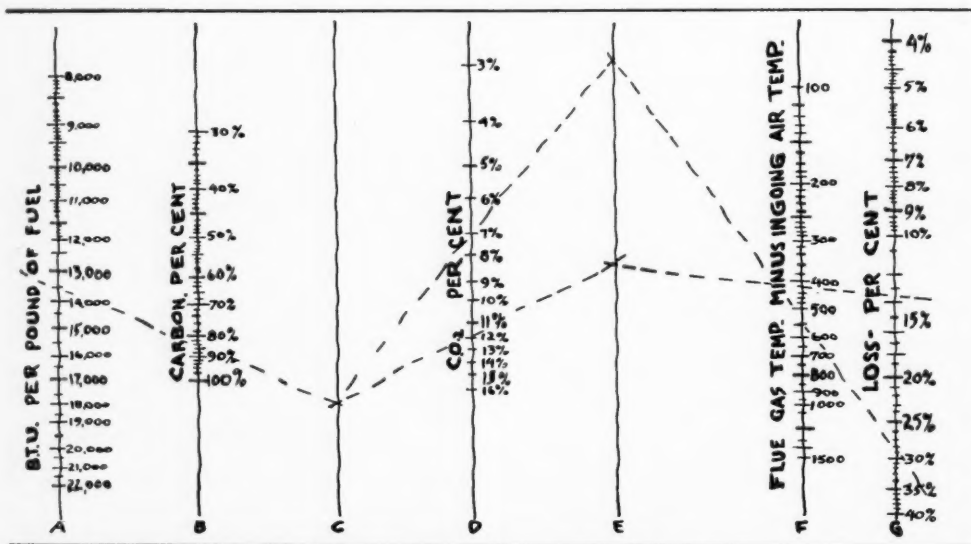


Chart indicates the cost of steam at varying prices for coal and oil with different over-all operating efficiencies. From cost of oil or coal at the bottom of chart trace up to point of assumed boiler efficiency on the scale at the left. The point of intersection on the slanting line will show fuel costs per 1,000 pounds of steam and can be read to nearest cent or to a tenth of a cent by proportion. For example, a laundry using No. 6 Bunker C oil selling at 5.2 cents per gallon with a boiler of 65 percent efficiency will be paying 53.4 cents per 1,000 pounds of steam. Improving the boiler efficiency to 75 percent will cut steam cost to 46 cents, resulting in a saving of 7.4 cents per 1,000 pounds. Or a 70 percent efficient boiler burning 14,000 B.t.u. coal selling at \$10 per ton will deliver 1,000 pounds of steam at 51 cents per thousand pounds. This chart may be used in plotting the comparative costs of coal and oil or for figuring possible savings from stokers and combustion controls. If fuel costs go higher than shown on chart use one half fuel cost and multiply resulting cost of steam by 2.

Computing Heat Loss in the Flue



Using this chart to compute heat loss in flue, zigzag a ruler from left to right, as shown by dotted lines.

For example, the heat value of coal used in a certain plant is 13,500 B.t.u. per pound; 85 percent of the coal is carbon; the flue gas contains seven percent CO₂; the flue gas temperature is 600 degrees F.; and the temperature of the air entering the furnace is 75 degrees F. What is the heat loss up the chimney due to low CO₂ and the temperature rise of (600 degrees minus 75 degrees) 525 degrees F.?

Applying the chart, the dotted lines show the solu-

tion of the problem as follows: run a straight line through the 13,500 B.t.u., column A, and the 85 percent carbon, column B, and locate the intersection in column C. Then run a line through that point in column C and the seven percent CO₂ in column D, locating a point in column E. Trace a line through that point in column E and the 525 degree difference, column F, and the intersection with column G shows the fuel loss to be 27.7 percent.

Assume furnace conditions are improved to the extent that CO₂ becomes 12 percent and flue gas temperature

is reduced to 500 degrees F. Temperature of air entering the furnace is still 75 degrees F., hence the "difference," column F, is 425 degrees.

Applying the chart, the same point in column C is located as already indicated. Then run a straight line through that point and the 12 percent CO₂ in column D, locating a new point in column E. Then from this latter

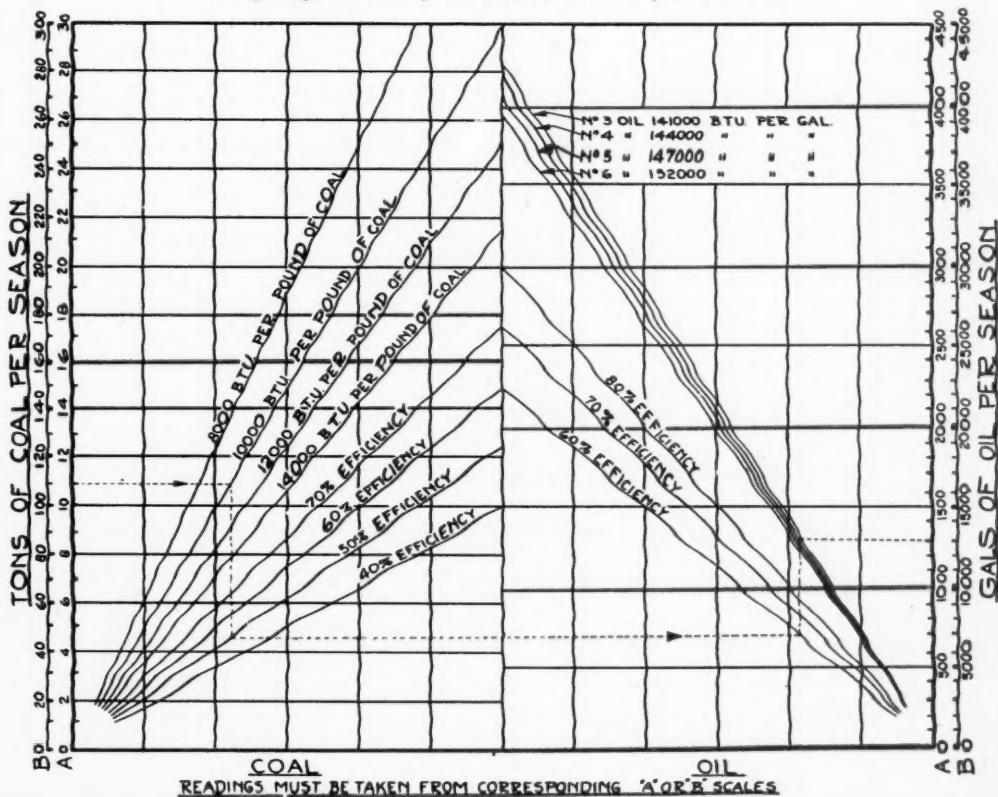
point run through the 425 degrees in column F and the fuel loss, as indicated in column G, is found to be 13.7 percent.

Obviously now, the saving in fuel due to improvement in conditions is the difference between the two losses as computed above: 27.7 percent minus 13.7 percent = 14 percent saving.

Table of Stack Proportions

Boiler H.P.	Size of Stack						Cubic Feet of Combustion Chamber		
	Hand Fired		Stoker Fired		Oil Fired		Hand Firing 65% EH.	Stoker Firing 70% EH.	Oil Firing 75% EH.
	Dia.	Height	Dia.	Height	Dia.	Height			
50	24"	50'	21"	50'	18"	60'	57.5	55	77
100	30"	70'	27"	60'	24"	60'	115	110	154
150	36"	70'	30"	70'	24"	90'	172.5	165	231
200	42"	70'	36"	60'	30"	80'	230	220	308
300	48"	80'	42"	70'	36"	80'	345	330	462
500	54"	125'	48"	100'	42"	90'	575	550	770
1000	72"	150'	66"	100'	54"	100'	1150	1060	1540

Computing Oil Consumption When Coal Consumption Is Known



When coal consumption is known, this chart permits ready estimation of comparative gallons of oil required. Locate coal consumption on left-hand A or B scale, read right to the heat content, down to the efficiency curve. From this point trace horizontally right to the assumed oil efficiency, up to the grade of oil assumed, then right to the corresponding A or B scale for oil and read to the comparative oil consumption. As illustrated in the dotted lines above, if a plant burns 110 tons of 10,000 B.t.u. coal at an efficiency of 50 percent, a comparative oil burning installation using No. 4 oil at 60 percent efficiency will require 13,000 gallons of oil for the same period. The chart may be used in reverse when oil consumption is known to estimate comparative tons of coal needed for a like period of time.

Table of Factors
For Determining Trap Capacities at Reduced Pressure

Minimum Operating Pressure	Maximum Operating Pressure																			
	5#	10#	15#	20#	30#	40#	50#	60#	70#	80#	90#	100#	125#	150#	200#	225#	250#	300#		
1/10 lb.	.14	.10	.09	.08	.07	.06	.05	.05	.05	.04	.04	.04	.04	.04	.03	.03	.03	.03		
1/4 lb.	.22	.16	.14	.12	.10	.09	.08	.07	.07	.06	.06	.06	.06	.05	.05	.04	.04	.04		
1/2 lb.	.32	.22	.19	.17	.14	.12	.11	.10	.09	.09	.08	.08	.07	.07	.06	.06	.05	.05		
1 lb.	.45	.32	.26	.23	.19	.17	.15	.14	.13	.12	.11	.11	.10	.10	.09	.08	.08	.08		
2 lbs.	.63	.45	.36	.33	.27	.23	.20	.19	.18	.17	.16	.16	.15	.13	.12	.11	.11	.11		
3 lbs.	.78	.55	.45	.40	.33	.29	.27	.24	.23	.21	.20	.19	.18	.16	.15	.14	.13	.13		
4 lbs.	.89	.64	.52	.46	.38	.33	.30	.27	.26	.24	.23	.23	.20	.19	.17	.16	.15	.15		
5 lbs.	1.00	.71	.58	.52	.43	.37	.34	.31	.29	.27	.26	.25	.23	.21	.19	.18	.18	.16		
10 lbs.		1.00	.82	.72	.61	.52	.48	.44	.41	.39	.37	.36	.32	.30	.27	.26	.25	.23		
15 lbs.			1.00	.85	.73	.62	.59	.56	.51	.48	.45	.43	.39	.36	.32	.30	.29	.27		
20 lbs.				1.00	.83	.73	.66	.61	.58	.55	.51	.49	.44	.42	.36	.34	.33	.31		
25 lbs.					.91	.80	.73	.69	.65	.61	.55	.53	.47	.46	.40	.38	.37	.34		
30 lbs.					1.00	.88	.79	.75	.70	.66	.60	.59	.54	.50	.45	.42	.41	.38		
40 lbs.						1.00	.90	.84	.80	.76	.69	.67	.61	.57	.50	.48	.46	.43		
50 lbs.							1.00	.93	.89	.84	.78	.75	.68	.63	.56	.53	.51	.48		
60 lbs.								1.00	.93	.88	.83	.80	.73	.68	.60	.57	.55	.52		
70 lbs.									1.00	.94	.89	.85	.78	.73	.64	.61	.59	.55		
80 lbs.										1.00	.95	.91	.82	.75	.68	.66	.63	.59		
90 lbs.											1.00	.95	.87	.81	.71	.68	.66	.61		
100 lbs.												1.00	.91	.85	.75	.73	.70	.64		
125 lbs.													1.00	.93	.83	.80	.75	.71		
150 lbs.														1.00	.89	.86	.80	.75		
175 lbs.															.94	.92	.87	.81		
200 lbs.															1.00	.96	.90	.85		
225 lbs.																1.00	.97	.90		
250 lbs.																	1.00	.93		

Source: V. D. Anderson Co.

Although a steam trap will operate at pressures below those for which it is designed, the capacity decreases with the fall in pressure. The table above gives correction factors for determining trap capacities at reduced pressures. Locate the normal operating pressure in the top line; follow down this column to the reduced pressure desired. The point of intersection shows the correction factors; multiply the normal trap capacity by the cor-

rection factor, and the product is the trap capacity under the reduced pressure. For example, if a trap designed for 235 pounds pressure delivers 1800 pounds of condensate per hour at maximum operating pressure, at 70 pounds pressure the capacity will be $1800 \times .61$, correction factor in this case, = 1098 pounds of condensate per hour at the reduced pressure. Excess condensate in heated equipment lowers the temperature.

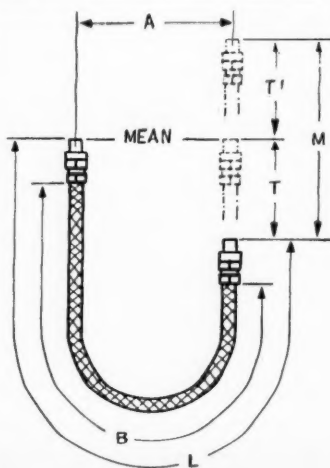
Flexible Metal Hose—Lengths and Minimum Bending Distances

Length of hose includes three factors: Bending Distance A, Travel of Hose M (T + T') and Coupling Factor C. With installation at minimum bending distance A and no travel, take length L from table. For hose subject to travel and installed at distance A, take L from table and add one-half travel when T and T' are equal; when they are not, add the larger. To calculate hose length independently, use following formulae:

Hose I. D. $\frac{1}{4}$ " to 2": Length L = $2\frac{1}{2}$ A + C + T (use T or T' whichever is greater)
Hose I. D. $2\frac{1}{2}$ " to 6": Length L = $1\frac{3}{4}$ A + C (no travel)

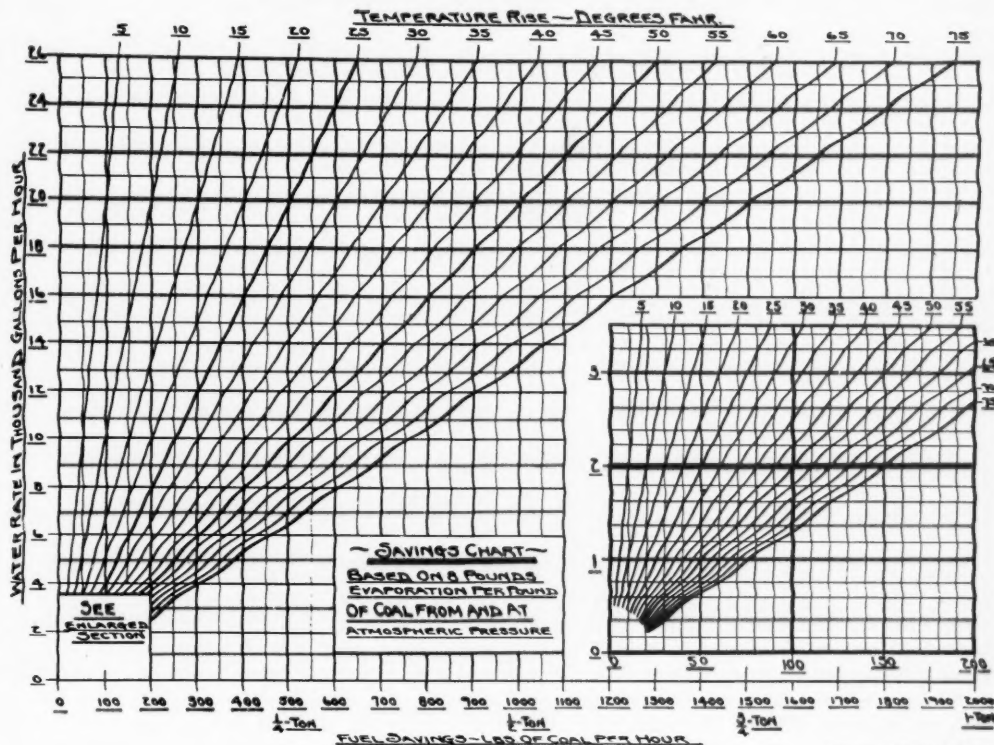
HOSE I. D.	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"
A	8"	10"	12"	16"	18"	20"	24"	26"
B	20"	24"	30"	38"	44"	50"	56"	62"
C	4-1/2"	5"	5-1/2"	6"	7"	7-1/2"	8"	8"
L	25"	29"	36"	44"	51"	58"	64"	70"

HOSE I. D.	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	5"	6"
A	28"	30"	64"	72"	78"	84"	108"	120"
B	68"	72"	9' 6"	10' 4"	11' 4"	12' 6"	18 FT.	18 FT.
C	9"	9"	9"	11"	-	-	-	-
L	77"	81"	10 FT.	11' 6"	-	-	-	-



Source—Packless Metal Products Corp.

Fuel Savings Produced by Waste Water Heat Exchangers



Source: Whitlock Mfg. Co.

The graph plots fuel savings in pounds of coal per hour for waste water heat exchangers operating at various capacities and producing various degrees of temperature rise. From the water rate in thousands of gallons per hour at the left of the chart, read right to the starting line marking the number of degrees temperature rise produced; read down to the bottom of the scale to find the approximate pounds of coal saved under the conditions assumed. For example, waste water heat exchanger taking 8,000 gallons of water an hour and raising the temperature 50 degrees F. will save 400 pounds of coal per hour under the conditions above. These figures are based on an assumption of eight pounds of water evaporated per hour per pound of coal; if the Btu content of the fuel or the efficiency of the boiler produces a higher evaporation rate, the saving in actual pounds of coal using the heat exchanger will be proportionally less.

Steam Temperatures at Various Pressures

Lbs. Pressure Per Sq. Inch	Temperature °F.*	Lbs. Pressure Per Sq. Inch	Temperature °F.*
0#	212°	65#	312°
5	227	70	316
10	239	75	320
15	250	80	324
20	259	85	328
25	267	90	331
30	274	95	335
35	281	100	338
40	287	105	341
45	292	110	345
50	298	115	348
55	303	120	351
60	307	125	353

* Fractional temperatures to nearest integer.

Water boils at 212 degrees Fahrenheit or 100 degrees Centigrade. As the steam begins to form in a closed container the pressure rises and the temperature of the steam increases. Temperature of saturated steam varies directly with the pressure in the boiler. A press taking

steam at 100 lbs. pressure will yield a surface temperature of 338 degrees Fahrenheit.

Sizes for Boiler Combustion Chambers

Method of firing	B.t.u. per cubic foot	Approximate cubic feet required per hp.
Hand	50,000	1 1/10 cubic feet
Stoker	45,000	1 cubic foot
Oil	30,000	1 1/2 cubic feet
Pulverized Coal	20,000	2 1/4 cubic feet
Gas	30-35,000	1 1/2 cubic feet

In computing cubic contents of combustion chambers measure the depth to bridgwall for underfeed stoker and hand firing; the entire depth for pulverized coal, oil or gas firing and for spreaders or overfeed stokers. Width times height times depth will give the cubic contents. From the table, an oil-fired installation requires 1 1/2 cubic feet of combustion chamber per horsepower, thus a 50 hp. boiler should have about 75 cubic feet of combustion chamber.

Drycleaning Section

Synthetic Solvents

Each of the three synthetic fluids used in the drycleaning industry—carbon tetrachloride (including carbon tetrachloride-base blended fluids), trichlorethylene and perchlorethylene—has its own particular application.

Likewise, there are three main classes of synthetic drycleaning machines:

Washer-Cabinet-Drier Systems: Garments washed and extracted in same basket, removed from basket and hung in ventilated cabinet to dry.

Washer-Drier Systems: All washing, extracting, drying or deodorizing done in same basket. Solvent left in garments after extraction is not recovered.

Washer-Recovery Systems: Garments washed, extracted and dried in one basket. Solvent left in garments after extraction is recovered by recirculating air which is alternately heated and cooled.

Physical Properties

Physical and chemical properties of drycleaning solvents as they apply to design of drycleaning machine:

Washer: Rapid cleaning possible with chlorinated solvents because of their high solvent power for grease and rapid penetration rate.

Carbon tetrachloride and perchlorethylene—cleaning powers just about equal.

Trichlorethylene—most efficient fluid for soil removal. Therefore, machine having large capacity per hour may be built around a relatively small basket by allowing a number of loads to be processed per hour.

Extractor: Difference in hold-up of solvent in garments after identical extraction conditions:

Carbon tetrachloride and perchlorethylene—no appreciable difference.

Trichlorethylene—slightly more recoverable by extraction.

Filter: Operation essentially same with any of the synthetic fluids; normal precoat and operating additions will work equally well with any of the three fluids under identical conditions.

A large item in solvent consumption is solvent left in discarded filter sludge, which accounts for approximately $\frac{1}{3}$ of solvent consumed in one washer-cabinet-drier machine.

Still: Three physical properties of the solvents have to be taken into account as regards the still—specific heat, boiling point, latent heat of vaporization. All three add up to heat input required to distill the solvent. The three solvents have approximately the same specific heat of around 2, and approximately the same latent heat of vaporization. The main difference is in the boiling point: carbon tetrachloride, 169.7 degrees F.; trichlorethylene, 188.4 degrees F.; perchlorethylene, 250.2 degrees F.

Carbon tetrachloride and trichlorethylene—may be distilled at low steam pressures, usually not in excess of 10 pounds per square inch gauge pressure.

Perchlorethylene—will require approximately 50 pounds. In some machines this factor rules out perchlorethylene, since still coils or jackets will not stand the higher pressure, or area of coils is not large enough to have sufficient heat input for distillation of this fluid.

Solvent Recovery: Vapor pressure exerted by the various fluids is greatest single factor affecting solvent cost. Vapor pressure determines how much fluid is lost in the drycleaning operation, also amount of solvent that may be recovered from garments after extraction.

Evaporation rate (taking ether as having a rating of 100):

Carbon tetrachloride—33
Trichlorethylene—28
Perchlorethylene—9

Physical Properties of Synthetic Solvents

	Carbon Tetrachloride	Trichlorethylene	Perchlorethylene
Chemical formula	C Cl ₄	C ₂ H Cl ₃	C ₂ Cl ₄
Boiling point, °F.	169.7	188.4	250.2
Latent heat of vaporization at boiling point, B.t.u./lb.	84.2	103.0	90.0
Specific heat, liquid	0.205	0.225	0.205
Viscosity, liquid (68° F.) cp.	0.969	0.58	0.88
Surface tension (in air) dynes/cm.	25.4 (in nitrogen) at 77° F.	approx. 29 at 86° F.	32.32 at 68° F.
Specific gravity (20°/4° C.)	1.594	1.464	1.623
Pounds per gallon (68° F.)	13.30	12.30 (59° F.)	13.55
Vapor pressure, mm. Hg. (68° F.)	91	58.5	14.2
Evaporation rate (ether-100)	33	28	9
Flammability, Underwriters' Laboratories rating	0	3	0

Solvent Costs: Only true basis for comparison is solvent cost per pound of garments cleaned. It matters little what is paid for a drum of solvent, but it does matter how much cleaning a drum of solvent will do.

In one popular washer-cabinet-drier machine, losses were determined, by extensive laboratory and field tests, to be distributed as follows:

	Perchloroethylene	Carbon tetrachloride
Filter loss	6.0 lbs.	6.0 lbs.
Hold-up	13.1 lbs.	14.0 lbs.
Still residues	.4 lb.	.33 lb.
Evaporated loss	3.5 lbs.	9.87 lbs.
Total loss, solvent per 100 lbs. garments	23.0 lbs.	30.20 lbs.

Taking a base price of 13 cents per pound for perchlorethylene and 10.5 cents per pound for carbon tetrachloride, this represents a cleaning cost of 2.99 cents per pound for perchlorethylene as against 3.17 cents for carbon tetrachloride. A comparison of the figures cited above shows that while perchlorethylene costs \$1.73 a gallon and carbon tetrachloride only \$1.40, high evaporation rate of carbon tetrachloride partially offsets higher cost per gallon of perchlorethylene.

How to Reduce Cleaning Costs

Hold-up of solvent in garments after extraction: Varies with efficiency of extractor, which is a function of the diameter of the extractor basket and speed of extractor. This factor is built into machine and cannot be varied.

Length of extraction time: Can be varied.

Example: Variation in amount of solvent left in clothes after extraction. Garments extracted were wool, extraction time seven minutes in all cases.

Machine No.	Diameter of basket	Extraction speed	Solvent hold-up %
1.	27"	900	12.5
2.	30"	860	12.5
3.	34"	810	13.5
4.	30"	750	14.5
5.	32"	640	16.0
6.	24"	550	22.0

Recovery of solvent left in garments after extraction in separate recovery-drier will reclaim 90 percent of hold-up solvent. Will reduce cleaning cost to nearly one cent a pound with perchlorethylene, most completely recoverable solvent.

Filter loss: Much of this loss may be recovered by back-washing the sludge and steam-stripping when perchlorethylene is used.

Evaporation losses in operation: Minimized by using perchlorethylene.

By carrying out each of these solvent-saving steps, the solvent cost of cleaning with perchlorethylene may be held to .75 cents to one cent per pound, as compared to 1.75 cents to 3.5 cents per pound for carbon tetrachloride, depending on efficiency of operation.

These studies of solvent costs have been limited to perchlorethylene and carbon tetrachloride, since these two solvents afford the greatest contrast.

Chief advantage of trichlorethylene: Lends itself to construction of lower-priced machine from low-cost materials of construction.

Trichlorethylene should only be used in machines especially designed for it as this solvent has a tendency to bleed fugitive cellulose acetate dyes when the temperature of the solvent exceeds 80 degrees F.

Source—E. I. du Pont de Nemours & Company, Electrochemicals Department

Petroleum Solvents

Standards for petroleum distillates used in drycleaning cover physical and chemical properties, methods of testing, certification of quality.

Standards for Stoddard Solvent

(Commercial Standard CS 3-40):

1. **Material:** Stoddard solvent shall be a petroleum distillate.

2. **Appearance:** It shall be clear and free from suspended matter and undissolved water.

3. **Color:** It shall be water-white or not darker than 21 by Sayboldt chromometer.

4. **Odor:** Solvent shall be free from rancid and objectionable odors.

5. **Corrosive Properties:** Copper shall show not more than extremely slight discoloration when submerged in solvent for three hours at 122 degrees.

6. **Doctor Test:** Solvent should react negatively.

7. **Sulphuric Acid Absorption Test:** Not more than 5 percent of the solvent should be absorbed by CP sulphuric acid (93.2 percent).

8. **Flash Point:** Shall not be lower than 100 degrees.

9. **Distillation Range:** When a sample is distilled according to specifications, not less than 50 percent should be recovered when the thermometer reads 350 degrees F. and not less than 90 percent when the thermometer reads 375 degrees F. and the end point shall not be higher than 410 degrees F.

10. **Residue:** When a sample is distilled the residue shall not be more than 1.5 percent.

11. **Acidity:** Residue from distillation shall not show an acid reaction.

Standards for 140 F Solvent

The 140 F solvent has been developed in an effort to produce a workable solvent that would have a flash point higher than that set for Stoddard solvent and would show a high degree of safety in regard to fire hazard.

The main specification required by the Underwriters' Laboratories for 140 F solvent is that the flash point be a minimum of 138.2 degrees F. According to the Underwriters' listings this type of solvent is placed in a class between paraffin oil and kerosene.

The Stoddard solvent specifications are concerned only with the solvent and do not require any designated type of equipment.

In the use of 140 F solvent, specifications have also been set up in respect to the type of equipment in which it should be used for maximum safety. In some cases the equipment approved has been tumblers and drying cabinets. Some complete drying units have been approved for the use of 140 F solvent.

Approved drycleaning systems together with particular listed drying cabinets or tumblers are suitable only for use with listed cleaning liquids classified with respect to fire hazard and complying with the following specifications:

1. **Flash Point** (closed cup): Not lower than 138.2 degrees F.

2. **Initial Boiling Point:** Not lower than 357.8 degrees F.
3. **Ignition Temperature:** Not lower than 453.3° F.
4. **Lower Limit of Explosion Range:** Not less than .8 percent by volume in air at initial temperature of 302 degrees F.
5. **Spontaneous Heating:** The cleaning material shall not heat spontaneously.
The color, odor, corrosion and doctor tests are the

same as those commonly used for Stoddard solvent.

Along with the use of approved systems, the installation should be set up in accordance with the standards of the National Board of Fire Underwriters for safeguarding drycleaning and dyeing plants. Authorized inspectors should be consulted before installation.

The use of either of these solvents is regulated by the state fire marshal's office and the regulations vary considerably from one state to another.

Source—Anderson-Prichard Oil Corporation

Miscellaneous

Pumps for Filter Circulation

Following chart shows pump size recommended for each size of filter and speed at which each should operate to produce intended flow rate

Filter Gallons Per Hour	Size of Suction and Discharge Pipes	R.P.M. Pump Pulley	Diam- eter Pump Pulley	Gallons Per Revo- lution
400	1"	450	4 3/4"	0.015
600	1"	650	4 3/4"	0.015
1000	1 1/4"	375	7"	0.044
1200	1 1/2"	230	10"	0.087
2000	2"	265	10"	0.125
3200	2"	235	12"	0.235
5000	2"	350	12"	0.23
8000	3"	250	24"	0.53

Source—Viking Pump Co.

Capacities of Clarifying Tanks

To calculate the number of gallons in the cylinder of a clarifying tank use the following data:

$$\pi \times \text{radius}^2 \times \text{height} = \text{cubic inches in cylinder}$$

$$231 \text{ cubic inches} = 1 \text{ gallon}$$

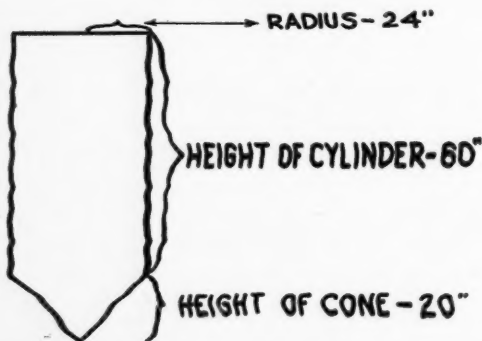
$$\text{cubic inches} \div 231 = \text{gallons in cylinder}$$

Given a clarifying tank cylinder with a radius of 24 inches and a height of 60 inches:

$$\frac{3.1416 \times 24 \times 24 \times 60}{231} = 469.9 \text{ gallons}$$

To calculate the number of gallons in the cone of a clarifying tank use the following formula:

$$\frac{1/3 \pi \times \text{radius}^2 \times \text{height}}{231} = \text{gallons in the cone}$$



To find the capacity of a clarifying tank cone with a radius of 24 inches and a height of 20 inches:

$$\frac{3.1416 \times 24 \times 24 \times 20}{3 \times 231} = 52.2 \text{ gallons}$$

Capacities of Drycleaning Washers

It is impossible to quote precise washer loads to fit all types of equipment and diversified local conditions. The following capacities are average figures based on the recommendations of various washer manufacturers, detergent producers and drycleaning supply houses

Size	Wood, lbs.	Metal, lbs.
30 x 30"	30	—
30 x 40"	40	50
30 x 48"	50	63
36 x 48"	67	85
36 x 54"	78	95
36 x 64"	96	112
36 x 72"	103	117
42 x 54"	107	124
42 x 64"	128	154
42 x 72"	139	158
42 x 84"	167	198
42 x 96"	191	226
42 x 120"	226	250

Extractor Speeds

The revolutions per minute given in the table below are recommended by most manufacturers for extractors of various sizes

Diameter	R.P.M.
20"	1360
26"	1260
28"	1150
30"	1110
40"	900
48"	725
60"	610

Recommended Drycleaning Washer Speeds

Drycleaning washers should travel between 160 and 180 linear feet per minute depending upon rib height and type of clothing being cleaned. Use the slower speeds for silks washed in high-ribbed machines. Most manufacturers recommend the following revolutions per minute as speeds for drycleaning washers of various diameters

Diameter	R.P.M.
30"	20-30
36"	17-19
42"	15-16

Finishing Hints

Steam Line Size

Number of Presses	Size Steam Line
1-2	1/2 inch
3-4	3/4 inch
5-6	1 inch
6-10	1 1/4 inches
10-14	1 1/2 inches
14-25	2 inches

Maximum Temperatures for Various Fabrics

Fabric	Temperature
Rayon	280 to 300 deg. F.
Nylon	280 to 300 deg. F.
Silk	320 to 340 deg. F.
Wool	350 to 370 deg. F.
Cotton	400 to 420 deg. F.
Linen	450 to 500 deg. F.

Spotting Suggestions

1. Keep tight corks or covers on all spotting agents. Only solvents safe for use on all fabrics should be kept conveniently at hand.

2. Remember that fabrics are most sensitive when wet. Don't rub a wet fabric with a chamois skin, turkish towel or brush. Use a tamping action. Scatching a wet fabric with the fingernail may cause irreparable damage.

3. After use, spotting brushes should be hung up to dry or left face down so the water drains from the bristles. Soaking swells fibers and splits the wood base.

4. Keep spotting brushes in shape. Uneven bristles cause inaccurate application and may hurt the fabric.

5. Gouging with the point of the spatula will lead to damage claims. Use with an easy tamping action.

6. On cellulose acetate fabrics always make a colorfastness test on an unexposed portion of the garment to discover whether certain dangerous spotting agents, such as alcohol, may be employed.

7. Use a dropper to apply spotting agents. Frequently, a few drops will do the job; when small amounts are used, removal of the agent is simplified.

8. Don't use hot soap solutions on fugitive or weak colors.

9. Before resorting to wetcleaning a garment consider handbrushing with dry solvent and soap.

10. When applying a digester to an albuminous stain make certain all the soap, alkali or acid is thoroughly rinsed out.

11. Remove metal trimmings, hooks, eyes, metallic buttons, pins or zippers before bleaching. Use stone, wood or earthenware containers for the bleach bath. Crowding garments in the tub is one of the major causes of uneven bleaching.

12. In employing a steam gun keep the jet moving at all times. If the gun is held perpendicular to the fabric, a hole will result. In removing food stains, flick at the spot, returning to it again and again.

13. Remove all spotting agents from the fabric. If they are dry, like paint removers, flush them out with a dry solvent. If they are wet, like ammonia or dilute

acetic acid, flush them out with water. If they are soaps, flush or rinse them out.

14. In drying garments circulation of air is more important than high temperatures.

15. Know when to quit. In cases where it is impossible to remove the stain without danger to the fabric, it is better to leave the spot than to ruin the garment.

Source—Spotting Manual

Stains to Be Prespotted

Stains which are set by the heat encountered in drycleaning and pressing should be recognized readily by markers and spotters. The following stains should always be removed in prespotting.

Blood: A stain red to brown in color, both absorbed and built-up, usually found in the front of garments.

Coca-Cola: Entirely absorbed, may be very faint before going through the drycleaning process. In some cases it will spread over wide areas of silk and woolen garments.

Cod Liver Oil: Yellow in color, absorbed, often long and narrow following the filler threads. When oxidized will have a slight rancid odor.

Coffee: Color will vary from light brown to dark brown depending on the amount of cream in the coffee; entirely absorbed. Stain will tend to spread in wide splotches with irregular edges.

Pigment Dyes: A common stain on the seat and shoulders of a garment, usually picked up from leather upholstery.

Perfume: May be identified by odor and location on front of garments. In pronounced cases may leave a round or circular stain, light in center with the dissolved dyestuffs pushed out to the circumference in a dark, heavy ring.

Road Oil, Tar, Asphalt: Black, built-up stain with a rough, uneven surface and irregular edges. If fresh, has a distinctive odor.

Syrup: Sticky when wet, often identifiable by odor.

Tea: Similar to coffee, but more tenacious.

Wage Incentive Data

Production Standards

	Pounds Per Man-Hour									
	A	B	C	D	E	F	G	H	I	J
Marking	481.6	...	69.3	96.8	50.0	44.4	52.9	27.3	59.1	51.7
Cleaning	72.9	76.0	37.7	40.4	14.0	26.0	30.4	26.0	20.3	26.8
Finishing	30.2	34.5	15.5	14.0	10.9	9.8	11.0	9.7	8.1	6.0
Packing	291.4	75.4	100.3	42.1	37.6	42.0	27.0	37.3	41.6	37.0

	Pieces Per Man-Hour									
	A	B	C	D	E	F	G	H	I	J
Marking	385.3	...	60.2	67.6	41.4	39.4	40.2	23.1	57.7	49.6
Cleaning	58.4	54.8	32.8	28.2	11.6	23.1	23.4	19.9	25.6	
Finishing	24.1	24.8	13.5	9.8	8.3	8.7	8.4	8.1	7.9	5.7
Packing	233.1	54.4	87.1	29.4	31.2	37.1	20.3	31.6	40.7	35.5

Definitive production standards applicable to any cleaning plant cannot be given for many reasons such as constant changes in methods and equipment, variations in quality standards, job doubling up, especially in small plants. Figures above are from 10 well-managed plants ranging from very low to very high production rates, \$5,000 to \$45,000 weekly volume, 39-cent to \$1.35 prices. Spotting is not included because widest variation in standards is found in that department.

High-quality operators should equal lowest output shown; mass-production plants should aim at the top

Southern Service Production Standards

Production Job	Pieces Per Man-Hour
Pressing trousers	40
Pressing men's coats	35
Pressing long coats*	20
Finishing long coats by steam-air	40
Pressing skirts**	30
Marking	150
Assembling	125
Pressing mixed wools	20
Pressing silk dresses***	12

*Men's and women's topcoats and lightweight fall and winter coats.

**Without bodices.

***Plain and fancy as they come.

Source—Claude Lucas

Standards of Southern Service Company of California prove that small plants can achieve high production. Prewar volume of this company's plants ranged from about \$800 to \$5,000 per week, average about \$1,500. Smallest in group had same standards as largest

Fur Section

Pre-Cleaning

All coats accepted for fur cleaning should be closely inspected for rips, tears, and fragile or worn pelts. Any torn or worn seams should be repaired at this point of the operation. Take out any loose linings to prevent the cleaning compound from working under them. Moth damage, shedding or cracked hairs, and fugitive dyes (such as are sometimes found on blue and platinum fox) must be reckoned with during this first operation.

After inspection, each coat should be beaten and shaken to remove loose dust and hair, moths, and larvae, as well as to fluff up the matted hair. This operation economizes on the cleaning compound because there is less loose dirt left in the coat for it to absorb, and also cuts down drumming time. Beating may be quickly accomplished in a vibrating chamber.

Sponge the lining of the garment with a cleaning solvent. This solvent must have properties that remove dirt, grease, and most ordinary spots. Pour one pint into a shallow pan and then apply to the lining and rub

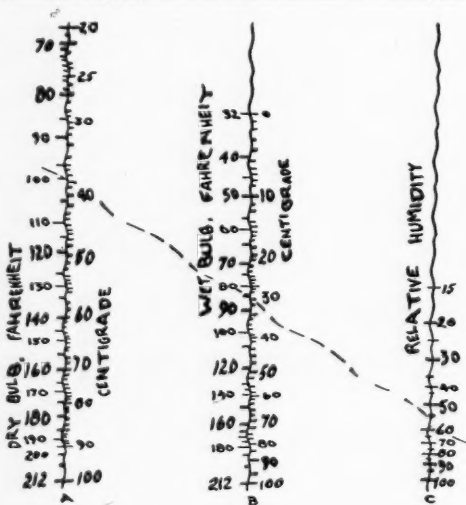
vigorously with a sponge or brush. Where you have a concentration of dirt, wet down generously with solvent and then use a brush to work this dirt loose. About three or four percent of all linings are badly soiled and will have to be removed and drycleaned.

Drumming and Caging

Put one to five pounds of absorbent into the drum for each coat to be cleaned. Also add one pint of cleaning solvent and one-half pint of water base cleaning fluid for each coat. Absorbent materials and cleaning fluids should be completely mixed before placing coats in drum. Place coats in drum and revolve for approximately one-half hour. This time may vary, depending on the coat's fragility.

After drumming, garments are placed in the cage and tumbled an average of 45 minutes. After caging, the garments are placed in the suction chamber of the vibrating table to remove any excess absorbent material. The garment is then placed on a work table and

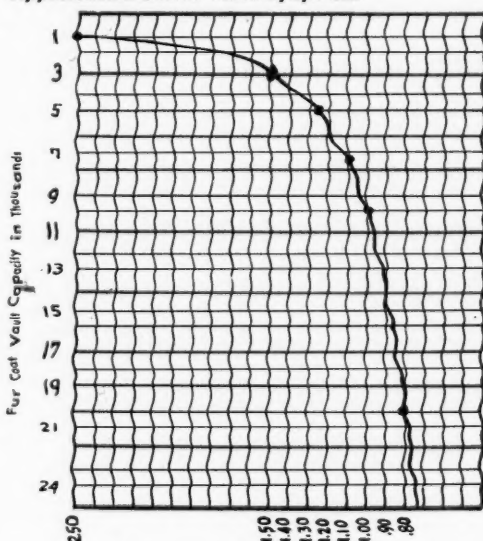
Gauging Relative Humidity



The accompanying chart makes it possible to gauge relative humidity quickly. Run a straight line through the dry-bulb temperature, column A, and the wet bulb temperature, column B. The relative humidity is given at the intersection with column C. Thus, if the dry bulb temperature is 100 degrees F. and the wet bulb temperature 85 degrees F., the dotted line drawn across the chart shows that the relative humidity, column C, is 54 percent.

The chart is based on a formula developed by the U. S. Bureau of Standards. Temperatures are given in both Fahrenheit and Centigrade.

Approximate Cost of Vault Equipment



Cost Per Coat—Storage Vault Equipment

Source—Reliable Fur Storage Equipment Co., Division of Reliable Machine Works, Inc.

Capacities of Fumigation Cabinets

Inside Area (Cubic Feet)	Capacity (Number Fur Coats)
141	40
219	70
297	100
375	130
453	160
531	190
609	220
717	250

both the lining and fur are blown with compressed air. If cleaning material has worked under the lining, open the seams and blow it out, but to avoid excess labor, keep seam ripping to a minimum. Use a mechanical beater in conjunction with compressed air to remove lint from curly fur such as Persian Lamb.

Fur Cleaning Classification

Fur	Drumming Time	Coging Time
WATER RODENTS		
Beaver	1 hour	1 hour
Nutria	1 hour	1 hour
Hudson Seal	30 to 45 minutes	25 to 30 minutes
Muskrat	30 to 40 minutes	15 to 20 minutes
LAND RODENTS		
Rabbit		
Dyed Coney		
Loplin	30 to 45 minutes	30 to 45 minutes
Northern Seal		
Beaverette		
Marmot		
THE CAT FAMILY		
Leopard		
Ocelot		
Leopard Cat	30 to 40 minutes	25 to 30 minutes
Lynx		
Civet Cat		
THE DOG FAMILY		
Fox		
Wolf	45 to 60 minutes	These furs usually used for scarfs. To prevent breakage of buckles and eyes, do not cage
Coyote	(hagged)	
Chinese Dog		
THE BEAR FAMILY		
Raccoon	1 hour	1 hour
Bear		
THE WEASEL FAMILY		
Mink	30 to 40 minutes	30 to 40 minutes
Kolinsky	30 to 40 minutes	30 to 40 minutes
Fitch	30 to 40 minutes	30 to 40 minutes
Fisher	30 to 40 minutes	30 to 40 minutes
Weasel	30 to 40 minutes	30 to 40 minutes
Otter	45 minutes	30 minutes
Skunk	45 minutes	30 minutes
POUCHED ANIMALS		
American Opossum	45 minutes	45 minutes
Australian Opossum		
CURLY FURS		
Russian Caracul		
Black Caracul		
Chakiang Caracul	20 to 30 minutes	5 to 10 minutes
Persian Lamb		
Krimmer Lamb		
Krimmer		
HOOFED ANIMALS		
Pony	35 to 45 minutes	35 to 45 minutes
Kidskin	20 to 30 minutes	10 minutes
ALASKA SEAL		
Safari Seal	35 to 45 minutes	35 to 45 minutes
Black Seal		
DELICATE FURS		
Galyak		
Chinchilla	Hand-clean	Shake out by hand or with a suction work table
Mole		
Squirrel		
Broadtail		
Barunduki		

Glazing

Fur glazing is to fur cleaning what pressing is to drycleaning. A fur garment may be cleaned thoroughly, and yet will not look well until it has been glazed. Glazing may be accomplished either through the use of solutions or through mechanical means. Solutions used include potassium permanganate, Chinese elm bark soakings, alcohol, plain water, etc.

In recent years the use of steam irons, steam guns, and rotary irons have become popular for this purpose, and usually do an excellent job with minimum labor. The method used, of course, must be suited to the particular fur being glazed. The steam iron method is limited to certain types, such as muskrat, mink, and coney. Beaver or mouton types and curly furs should not be steamed. The rotary iron is a grooved, revolving, heated iron which, when properly applied to fur, will straighten out the hair and produce a high sheen and silkiness.

Humidity in Storage Vaults

When there is a relative humidity of 65 percent or more in a storage vault, every article in the vault is in danger of being ruined by mildew. Mildew will grow in furs, rugs, and all cloth garments. Humidity of 52-53 percent is plenty for most situations. It is not generally known, but excessive humidity can spoil the fit of a fur coat, even if there is not sufficient humidity to cause mildew to grow. When humidity reaches a certain maximum, skins become soft and pliable and subject to stretching at the shoulders.

Glazing Chart

Fur	Rotary Iron	Steam Iron
Beaver	•	
Caracul		
Civet Cat	•	•
Coney	•	•
Ermine		•
Fitch	•	•
Fox		•
Guanaco	•	
Lamb, Persian		
Leopard	•	
Mink	•	•
Mink, Jap	•	•
Mink, Side		•
Mouton	•	
Muskrat	•	•
Nutria		
Ocelot	•	
Opossum, American	•	•
Opossum, Australian	•	
Otter, Plucked	•	
Persian Paw		
Raccoon	•	•
Raccoon, Sheared	•	
Seal, Alaska	•	
Seal, Hair	•	
Seal, Hudson	•	
Seal, Northern	•	
Seal, Tropical		
Skunk	•	•
Squirrel	•	•
Wolf	•	•
Wolverine	•	•

Source—Walter Haertel Co.

Source—Walter Haertel Co.

Break-even Charts

The combination of increasing costs, increasing competition, and decreasing profits has focused attention on the need for controls of costs and profits in laundry accounting procedure. Break-even charts provide a means of visualizing the effect of changes of volume or prices, and use of this excellent management tool has been endorsed by firms specializing in this type of work.*

Once you have accumulated certain basic information on your plant, it is not difficult to construct your own break-even chart. You must know:

1. Physical capacity of your plant in pounds, bundles, or percentage of capacity.
2. Potential sales income at capacity operation.
3. Amount of fixed costs (costs which do not fluctuate with volume such as rent, insurance, depreciation, taxes, executive, supervisors' and office salaries, etc.).
4. The ratio of variable costs (costs which vary according to the volume being processed) to sales income, expressed as a percentage. The services of a professional accountant may be helpful in deciding which costs are variable and which are fixed.

Chart No. 1 below is a break-even chart of a typical laundry. The chart was prepared as follows. It was figured that the plant was operating at 80 percent of capacity, and its weekly sales were running at \$4,000 per week. Therefore, if the plant were to be operated at capacity, sales would run \$5,000 per week. Fixed costs were figured at \$1,250 per week, and variable costs were calculated at 60 percent of weekly sales.

A square was laid out on cross-section paper with ten spaces across the bottom to represent capacity of zero to 100 percent, and with ten spaces running up the left side of the square representing weekly dollar sales from zero to \$5,000. Vertical and horizontal lines were drawn from the space marks to form a graph.

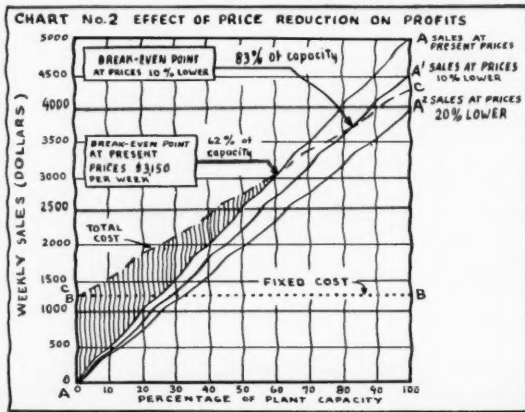
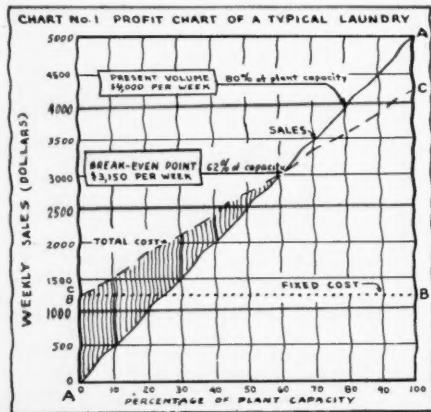
The first line drawn was A—A, representing total sales. The line was drawn diagonally across the graph so that any given amount of production could be trans-

lated into sales at the intersection of the vertical and horizontal lines. Then line B—B was drawn straight across the graph at a point indicating \$1,250 of fixed costs. Fixed costs would remain constant, of course, regardless of the volume of production or sales.

The next line to be plotted was that representing total cost, which is indicated on Chart No. 1 by line C—C. At zero production, the plant still has to pay its fixed costs, \$1,250. Therefore, a line indicating total cost would have to start at this point. As variable costs amounted, in this case, to 60 percent of sales, they would total \$3,000 at 100 percent capacity or at \$5,000 weekly sales. Accordingly, at 100 percent capacity, total cost amounted to \$3,000 (variable costs) plus \$1,250 (fixed costs), or \$4,250. A point equivalent to this total was, therefore, marked on the 100 percent of capacity line. The total cost line, C—C, was then drawn to connect this point and the \$1,250 mark on the zero capacity line.

As the break-even point must be the point where total costs are matched by sales income, the intersection of line A—A (sales) and line C—C (total cost) is the break-even point for this plant. This point was found to be \$3,150 per week. The shaded area below the break-even point indicates loss, and the space between the cost and sales lines above the break-even point represents profit—increasing as plant capacity is approached. Present sales of the plant were stated as \$4,000, so its profit was \$350 per week.

Chart 2 indicates the effects of 10 and 20 percent price reductions. Total costs (except for a slight reduction in routemen's commissions) remain constant. Line A—A' represents a drop of 10 percent in sales income, and indicates that physical volume must be increased from 62 percent to 83 percent, and sales must be increased from \$3,150 to \$3,735 in order to break even. If prices were lowered 20 percent, income would be below the total cost line at plant capacity and the plant could not possibly break even unless capacity were increased or costs substantially reduced.



* This article is based on charts and information provided through courtesy of John Carruthers & Co., Boston, Mass.

A. I. L. Bulletins and Reports

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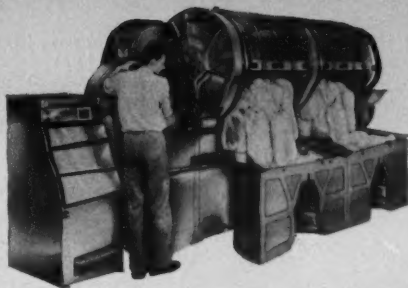
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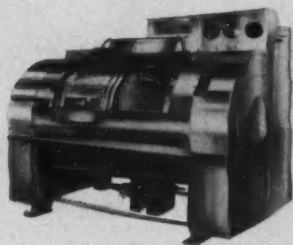
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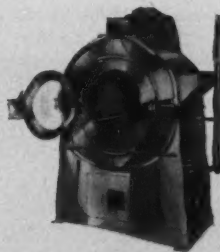
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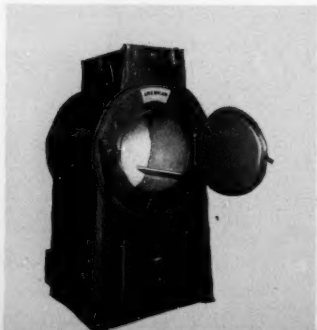
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THE AMERICAN LAUNDRY

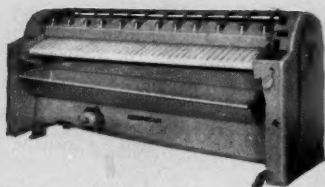
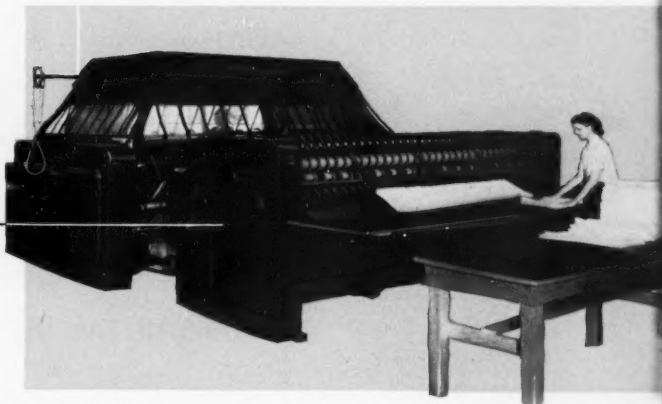
for conditioning, ironing and folding flatwork...



TRUMATIC Folder. Automatically folds linens as they come from ironer. Only one operator needed to crossfold and stack work. Independently driven. Can be used with any 110" or 120" ironer. Available single-lane for folding large pieces only; double-lane for folding large pieces or simultaneously folding two lanes of towels, pillow cases and similar pieces.

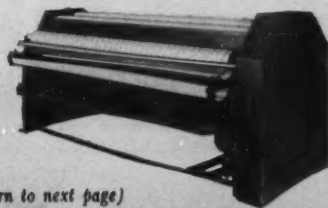
48x84" ROTAIRE Conditioning Tumbler. Conveyor-fed. Will supply continuous flow of both large and small pieces to two 8-Roll Ironers. Eliminates manual shakeout. Furnished with Feed & Discharge Conveyors, and Distributing Conveyors to deliver conditioned work directly to ironers. Makes big savings by reducing personnel in flatwork department and greatly increasing per-operator production. Capacity: 1500 lbs. dry wt. per hour.

SUPER-SYLON Flatwork Ironer. Incorporates every new development in flatwork ironer design. Large 13 $\frac{3}{4}$ " dia. rolls give 20% more heated surface under pressure. Ironing chests are designed for steam up to 125 lbs. pressure, producing more heat for high-speed ironing. Convenient grease-gun lubrication to practically all friction points. Available with Hamilton Spring Padding and vacuum exhaust from rolls. Sizes: 4-Roll (100", 110" or 120"); 6-Roll (110" or 120"); 8-Roll & 12-Roll (120").



TEMCON Gas-Heated Flatwork Ironer. Designed for finest quality, low-cost ironing of all types of linen. Ideal for small plants. Available for same side feed and delivery or straight-through ironing. Has Thermostatic Temperature Control and automatic gas shut-off. For use with all types of gas. Sizes: 60", 85" & 110".

RETRO Flatwork Ironer. Cylinder-type, steam-heated ironer, especially suited for small plants. Same side feed and delivery permits installation against wall... saves space. Sizes: 85" & 110" (66 to 88 lbs. per hr. capacity).



(Turn to next page)



for high-production finishing of all types of garments...



FORMATIC Shirt Unit. Only three operators produce as many or more shirts per hour as fastest 4-girl unit. Sleeve Finisher measures sleeve lengths automatically, for perfect ironing from shoulder seams to cuffs. FORMATIC Press irons entire shirt front and body in one operation. Automatic Folder quickly and completely folds shirts with no musing or wrinkling... eliminates need for skilled folding operator. Average production well over 100 shirts per hour.

2-Operator MACHINE-FINISH Shirt Unit. Completely machine-irons over 50 high quality shirts per hour, with no hand touch-up required. Shirts are beautifully ironed, folded and banded, ready for delivery. Available with finger-tip pressure control for finishing sport shirts.



SUPER-ZARMO Presses. Wide selection of models to speedily machine-iron all types of wearing apparel, linen supply garments and shirts. Various models can be combined to form production-balanced units which drastically reduce hand finishing and give highest hourly output. Unvarying $3\frac{3}{4}$ tons plus Direct Upward Pressure. Simplified air control. Linoleum covered tables. Heavily nickel-plated heads resist rust and stain.



SUPER-ZARMOETTE Presses. Variety of models designed for quickly machine-finishing small articles of wearing apparel, or portions of large garments which cannot be satisfactorily ironed on large-buck presses. Greatly reduces hand finishing. Can be combined with other presses to form various high-production units. Powerful, positive ironing pressure. Simplified, push-button controls.



AMERICAN Gives You More Than You Expect

From AMERICAN's complete line of laundry equipment you can confidently select everything you need for profitable laundry operation. But AMERICAN gives you more than this... *more than you expect.*

In addition to built-to-last construction, advanced design and superior performance, you get the benefit of AMERICAN's more than 80 years of experience in equipping laundry plants of every size and type. AMERICAN also offers you complete planning and advisory service, without cost or obligation. And competent field engineers, located in principal cities throughout the country, are always at your call.

Benefit by AMERICAN's experience and service. WRITE OR WIRE TODAY for complete information on any laundry equipment, or to have an AMERICAN Representative call.



The
AMERICAN
LAUNDRY MACHINERY CO.

CINCINNATI 12, OHIO

YOUR CUSTOMERS ARE OURS, TOO!

Make and Hold More with

R-X

Removes:

**SHELLAC •
PAINT • TAR •
ROAD OIL •
LIPSTICK •
GREASE •
FINGERNAIL
POLISH •
AIRPLANE DOPE**

**THE SPOTTER THAT
KEEPS YOUR CLEANING
REPUTATION *Spotless!***

The better your customer relations are, the better ours are with you. That's why we strongly recommend R-x to you for those difficult spotting jobs that defy other spotters. Not only will it do a better job for you, but it's so easy to use that no special skill or technique is required. No spotting job will lick you with R-x on hand. Goes to work instantly and is equally effective both in wetcleaning and drycleaning departments or on the spotting board. Yes, R-x will help you keep your spotting reputation spotless and make and hold more customers. And a little goes a long way, so it's mighty economical! Put R-x on your order list today!

THERE'S A CALED
PRODUCT
FOR EVERY
DRYCLEANING
NEED

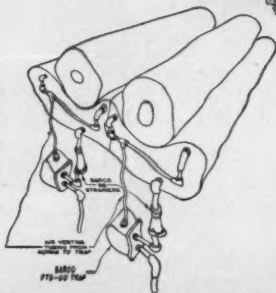
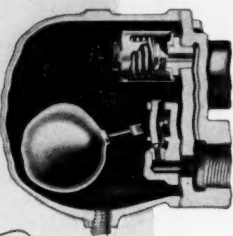


CALED
PRODUCTS CO., Inc.
BRENTWOOD MARYLAND



Two-roll ironer at Vogue Laundry, Flushing, N. Y., equipped with Sarco float-thermostatic steam traps and strainers.

Sarco float-thermostatic steam trap with built-in thermostatic air vent using the famous Sarco bellows. Assures an even temperature across the rolls by removing condensate and air rapidly and completely.



Piping hook-up for Sarco float-thermostatic steam traps and strainers on two-roll flatwork ironer.

20%

by installing

SARCO

FLOAT-THERMOSTATIC
STEAM TRAPS

on flatwork ironers

● An even temperature across the entire heating surface — that's a must with flatwork ironers, more than with most types of steam heated equipment.

Careful tests over a long period have proved these SARCO traps greatly superior because they

- 1) discharge all of the condensate as it forms — preventing waterlogging.
- 2) discharge air and gases through the large capacity thermostatic air vents — preventing formation of heat-insulating films of air.

The result is more work per hour with less steam.

Write for new bulletin 450-7 — no obligation.

SARCO COMPANY, INC.
EMPIRE STATE BUILDING, NEW YORK 1, N. Y.

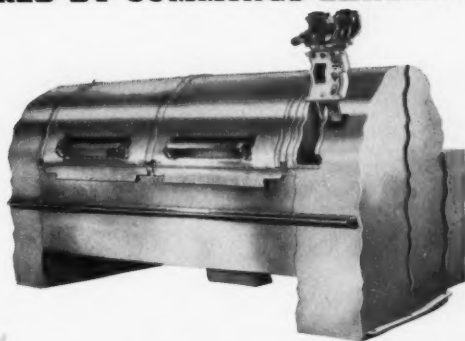
SARCO CANADA LTD., TORONTO 8, ONTARIO
REPRESENTED IN PRINCIPAL CITIES

362

ENGINEERED AND MANUFACTURED BY CUMMINGS-LANDAU

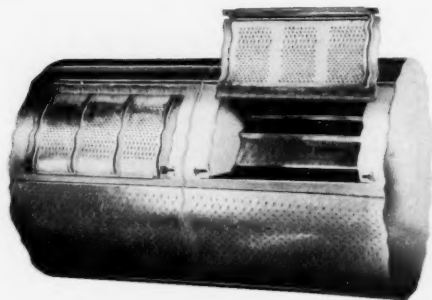
**CUMMINGS
LANDAU**

NEW ALL-METAL WASHER
in stainless steel. In sizes from 30" x 30" up to and including 60" x 126", lengths and pockets to suit your needs. Engineered for rugged construction. Simple and trouble-free operation. Fast and economical washing.



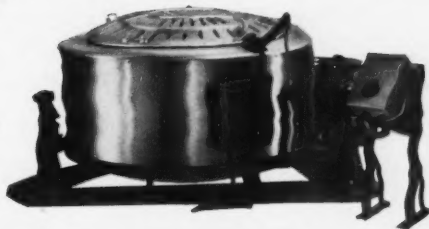
**CUMMINGS
LANDAU**

STAINLESS STEEL CYLINDERS
... Open pocket, Pullman glideout, "Y" type glideout, with stainless steel lock-proof, pinch-proof door. Doors are approximately 20 percent larger to speed up loading and unloading.



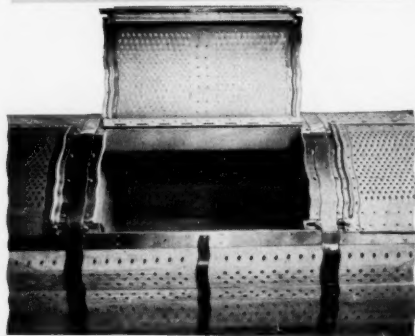
**CUMMINGS
LANDAU**

NEW 50" and 60" EXTRACTORS
... Stainless steel basket and shell. Rugged and simple construction. Automatic timer. Automatic brake release. Automatic cover opening and closing.



**CUMMINGS
LANDAU**

WOOD REPLACEMENT CYLINDERS
with stainless steel lock-proof, pinch-proof door. Install and forget all door repair problems. Doors are approximately 20 percent larger to speed up loading and unloading.



**CUMMINGS
LANDAU**

NEW UNLOADING EXTRACTOR
... Stainless steel basket and shell. Rugged and simple construction. Automatic timer. Automatic brake release. Automatic opening and closing.



SEE US AT
BOOTHS
739-41
43-45
A.I.L. CONV.
OCT. 3-8

CUMMINGS-LANDAU
LAUNDRY MACHINERY CO., INC.
305-17 TEN EYCK ST., BROOKLYN 6, N.Y.

FOR **BETTER** FLEXIBLE HOSE AND COUPLINGS*Specify****PACKLESS***

SUPPLIED AS STANDARD EQUIPMENT
BY LEADING MANUFACTURERS
AND DISTRIBUTORS —

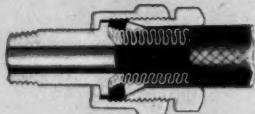
Packless manufactures and stocks every type of flexible metal hose unit required for all the various pressing machines now in use.

Packless Flexible Metal Hose is of the highest quality, seamless bronze tubing and contains no welded joints to weaken or crack. They are reinforced with high-tensile bronze wire braid which assures long life and extra safety under constant pressure.

Packless Flexible Metal Hose units are available in two constructions to satisfy every user; one with detachable fittings applied to the hose by mechanical means, the other with fittings brazed at each end.

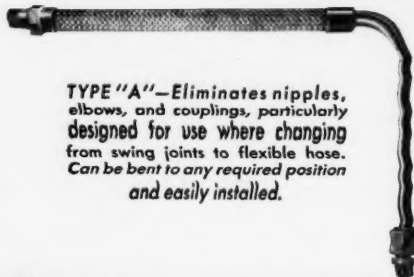
MECHANICAL FITTING ASSEMBLIES

Illustrated is type BD with Male Detachable Coupling each end. Also available with flanges one end or both ends.



Cross section view of the Packless Mechanical Coupling, showing the positive leakproof seal that is made without use of solder or application of excessive heat.

PACKLESS FLEXIBLE HOSE units are available for all pressing machines, in sizes 1/4", 5/16" and 3/8" I.D. with male pipe thread fittings or flanges, as required.

STANDARD UNITS WITH BRAZED FITTINGS

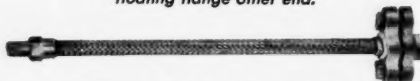
TYPE "A"—Eliminates nipples, elbows, and couplings, particularly designed for use where changing from swing joints to flexible hose. Can be bent to any required position and easily installed.



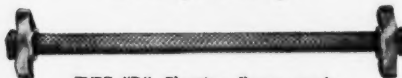
TYPE "B"—Male couplings each end.



TYPE "C"—Male coupling one end, floating flange other end.



TYPE "CC"—Unit as above, complete with Companion Flange.



TYPE "D"—Floating flange each end.

Send for descriptive folder on **PACKLESS FLEXIBLE HOSE** units. If your local dealer doesn't handle Packless, write in for the name of your nearest supplier.

PACKLESS DISTRIBUTORS ARE A DEPENDABLE SOURCE OF SUPPLY

PACKLESS**M E T A L H O S E I N C .**

31-1 Winthrop Ave., New Rochelle, N. Y.

When writing to advertisers please mention STARCHROOM LAUNDRY JOURNAL

65th CONVENTION ★ AMERICAN INSTITUTE of LAUNDERING

See The

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OCT. 2-5, 1952
ATLANTIC CITY

New
**PROSPERITY
MACHINES**

New
**PROSPERITY
UNITS**

COMPLETE LINE of
LAUNDRY and
DRYCLEANING
EQUIPMENT



32 BOOTHS of PROSPERITY EQUIPMENT
for LAUNDRY and DRYCLEANING PLANTS

ON AISLE 300

332	328	326	324	322	320	318	316	314	312	310	308	306	304	302	300
233	229	227	225	223	221	219	217	215	213	211	209	207	205	203	201

AND AISLE 200

The **PROSPERITY** *Company Inc.*
LAUNDRY AND DRYCLEANING EQUIPMENT
Main Office and Factory, Bridgeport, Conn.
Sales and Service in Foreign Countries

**YOU GET MORE
THAN THE PRODUCT**

**YOU GET THE
KNOW-HOW TOO**

when you order...

Cowles

LAUNDRY PRODUCTS and SERVICE



Your Cowles Specialist Man will gladly and efficiently demonstrate the quality of Cowles Products and the effectiveness of Cowles Service in your washroom. He's a specialist in washroom problems, knows his products well, and he can help you.

ESCOLITE—Highly colloidal alkaline detergent and builder. Economical on white work. Safe on colors. 350 lb. drums.

ESCOLLOID—Colloidal builder for heavy soil. High pH, high Na_2O . Long-mileage soap builder. Powerful break detergent. 350 lb. drums.

ESCOL 77—Power-plus detergent. Extra alkalinity and solvent action for greasy linen supply and heavily soiled white work. 350 lb. drums.

DRISUDZ—New—highly alkaline—power-packed complete laundry detergent. High pH colloidal alkali with high titer Soap. For the break and for the suds. 100 lb. bags and 250 lb. drums.

ESCOFOS—Triple-action soap regenerator. Strips all three—lime soap, acid soap, re-deposited soil. 50 lb. and 250 lb. drums.

DESOIL—Complete laundry detergent for light and medium soil. Colloidal alkali with soap. 100 lb. bags and 250 lb. drums.

SOILSORB—Alkaline absorbent detergent for picking up greasy soil. Also valuable for "policing" fugitive colors. 100 lb. bags and 325 lb. drums.

ESCOMO BLUE—Three shades—"A" (Green-Blue), "R" (Red-Blue), "NE" (Blue). Packages (8-2 oz. bottles), Quarts, Gallons.

CHLORESCO—High test (70%) calcium hypochlorite. Easy to make up. Assures safe and uniform bleaching. 100 lb. drums.

OLIVESCO—Mildly alkaline low-titer built soap. For silks, woolens, colors. 250 lb. drums.

ESCO SAVON*—High-titer built soap for white work. 250 lb. drums.

*EAST OF ROCKIES ONLY

YOUR
STAR
OF THE
FUTURE

UNIPRESS ...the Constellation shirt finishing unit

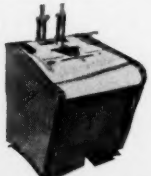


2 OUTSTANDING STARS
in shirt finishing

**UNIPRESS
ONE LAY
SLEEVE**
Irons up to
185
top quality
shirts per hour



Unipress One Lay Cabinet Sleever is designed for fast lays . . . automatic cuff release . . . and beautiful ironing up to 185 shirts per hour.



**UNIPRESS
AUTOMATIC
FOLDING TABLE**
Folds . . . bands
. . . stacks
up to
185
beautiful
shirts per hour

Operation of Unipress Automatic Folding Table is simple. Place shirt on table. Press button. Go about other work while shirt is automatically folded, banded, and stacked in just a few seconds. No other machine has so many features.

96

QUALITY SHIRTS per hour
... with only **2 GIRLS!**

Two new machines provide amazing production in this compact Unipress CONSTELLATION Shirt Unit. The new Unipress One Lay Sleever perfectly irons two shirt sleeves in one fast easy lay in just 6 seconds. The new Unipress Automatic Folding Table folds, bands, and stacks AUTOMATICALLY. Operator merely lays shirt . . . presses a button . . . and goes about other work. Tested and proven, both machines are simple in design and built for long carefree service . . . typical of Unipress engineering and construction.

With balanced rhythmic operation, two girls easily finish up to 96 top quality shirts per hour. This means lower production costs to you and greater profits. Training is faster and easier too!

It will pay you to ask about the operation of this new 2 Girl Unipress CONSTELLATION Shirt Unit today!

ACT NOW . . .
Mail this coupon today for layout and operating details of the new UNIPRESS CONSTELLATION SHIRT UNIT

Unipress Company
2800 Lyndale Ave. S., Minneapolis, Minn.

Send floor plans and complete information on
 _____ 2 Girl CONSTELLATION Shirt Unit
 _____ 3 Girl CONSTELLATION Shirt Unit
 _____ Unipress Automatic Folding Table
 _____ Unipress One Lay Sleever

Name _____
 Firm _____
 Address _____
 City _____ Zone _____ State _____

Manufacturers of Laundry Power Presses and Equipment
The UNIPRESS Company
 2800 LYNDALE AVENUE SOUTH • MINNEAPOLIS

EVERY LAUNDRYMAN SHOULD KNOW!

* Which Nylon Net is Better?

SEE US IN
BOOTHS 447-49-51
A. I. L. EXHIBIT
ATLANTIC CITY, N. J.

Ordinary 2x1 ply
construction

PLASTYLON "260"
2x2 ply construction
(Note more open mesh)

Individual filaments of the PLASTYLON "260" net are more than twice as thick as filaments employed in 210-denier yarn. The result: fewer individual filaments to break, but 24% more thickness in each strand for greater abrasion and deterioration resistance.

Nylon Nets May LOOK ALIKE, but
only **PLASTYLON "260"**

100% DU PONT NYLON 260-DENIER LAUNDRY NETS

Give you ALL these advantages

• Here is a net that is as far superior to ordinary 210-denier nylon nets as nylon, itself, is to cotton! It's the new, improved PLASTYLON "260" . . . cable woven of a new, heavy, 260-denier nylon. Ready—NOW—after two years of actual laundry tests—to demonstrate that all nylon nets are not alike. Ready to give you as much as 57% more washes per net! (As proved in an actual test!) No woven net made lasts longer or gives greater service! None more economical!

Order through your jobber—NOW.

GUARANTEED 260-denier Du Pont nylon 2 x 2 ply, cable-woven!

PRE-SHRUNK to retain its shape!

MORE-OPEN MESH insures faster, easier washings and rinsing . . . eliminates chance of soil redepositing!

NO EXTRA charge for stripes!

NO-BREAK sewing construction—Reinforced sewing!

CABLE-WOVEN selvage both at top and bottom of pinning edge.

SOFT FINISH! (Hard finish available if desired)—both give same service!

EASY LOADING, easy handling!

BETTER, faster washes at less cost per wash!

EVERY NET guaranteed uniform!

AVAILABLE in these sizes: 15 x 20, 18 x 30, 24 x 30, 24 x 36, 30 x 36, 30 x 40.

EVERY STEP OF PRODUCTION from yarn to sewing in our own plant.

*Results of an intensive study under day-by-day commercial laundry use demonstrate that maximum efficiency is obtained by 260-denier Du Pont nylon laundry nets. This report, which is available for your inspection, reveals the amazing fact that the new 260-denier net gives you up to

57%

MORE WASHES

than are possible with 210-denier nets now in common use! Try it . . . test it in your own plant under any conditions! You'll be amazed at the non-absorbent qualities of these wear-resistant 260-denier nets. You'll be rewarded with valuable savings in labor, time and chemicals. PLUS a tremendous saving in the longer life of your nets.

Carson Textile Co., INC.

2415 S. WATER ST.

PHILADELPHIA 48, PA.

SUPER "260"
PLASTYLON
Cable Woven for
Extra Strength
TRADE REG. U. S. PAT. OFF.



You Can't Hide from the FACTS!

Detrex cleaners are successful cleaners! The records prove it and that's what counts.

To be a successful drycleaner, you must have honest-to-goodness competitive advantages. That means flexibility, highest quality cleaning and economy of operation. Let's face it—that's where Detrex fills the bill. Here's why:

Flexibility of Production—The Detrex Process uses one machine to clean clothes and one to recover solvent.

Flexibility of Installation—The Detrex Process permits installation to suit almost any floor plan . . . on one floor, on two floors, with right-hand or left-hand loading and other variations.

Flexibility of Operation—You can use the Detrex Process on a straight solvent cycle—with soap added load by load—with the charge system for mild soap solution—or with the two-bath method for super strong soap solution.

Quality—The Detrex Machine right down to its carefully developed cleaning basket has been engineered to clean the best. Add to this the highest rate of filtration and distillation in the industry and you are assured of the highest quality drycleaning possible.

Economy—The Detrex Synth-O-Saver recovers the maximum amount of solvent, over 97%, making your solvent costs negligible and enabling you to operate at the most economical level.

To get the whole story, just drop us a note or post card. Face to face with the facts, you'll specify Detrex for the most in quality and economy. DETREX CORPORATION, Dept. D-1, Box 501, Detroit 32, Michigan.



SEE OTHER SIDE
OF THIS PAGE...
Important News!

DETREX

The Process that Shaped the Industry

Synthetic DRYCLEANING News

PUBLISHED BY
DETREX CORP., DETROIT 32, MICH.

SPECIAL EDITION

For those who wish to use New DETREX Two-Bath Super Strong Soap Process

Imaginative engineering, backed by constant laboratory research and field studies, is the reason the Detrex Process has always embodied the latest developments. And typical of such developments is the new Detrex unit which permits the use of the "charge system" two-bath method of high-concentration strong soap operation in the Detrex Process. The essential purposes of this unit are to provide a separate tank for clear rinse solvent from the tank containing solvent charged with super strong soap, and to provide a two-bath cycle with push-button operating simplicity. Thus, drycleaners now using milder strong soap solutions which do not allow for a clear solvent rinse, but who desire the use of higher concentrations of strong soap, will now find it possible through the installation of this unit on their Detrex equipment. The results achieved by one drycleaner are reported in the adjoining column.

The new Detrex two-bath unit is designed for installation on new Monarch machines prior to shipment or for installation on Regent and Monarch machines now in the field. On new machines, the unit adds only 2 feet in depth to present equipment. On machines now in the field, it can be installed at either side or the rear of the machine to best suit space and working conditions. We'll gladly send you complete details if you'll just fill out the coupon below . . . no obligation, of course.

DETREX CORPORATION

Dept. D-1, Box 501
Detroit 32, Michigan

Please rush to me, without obligation, complete details on the Detrex Process and the new Detrex two-bath unit.

NAME _____

ADDRESS _____

CITY _____ ZONE _____ STATE _____

MANGOLD CLEANERS REPORTS ON USE OF NEW DETREX TWO-BATH UNIT

Frank Mangold, owner of Mangold Cleaners, 1103 E. Seven Mile, Detroit, Michigan, has literally grown up in the drycleaning business. During 17 years working with his father and other drycleaners he accumulated intimate knowledge of all the established methods. Six years ago Frank started his own shop in which he selected Detrex equipment and has maintained a vigorous, growing business ever since. As a matter of policy, he has always handled the cleaning department in his shop personally. Recently, he added to his machine new Detrex equipment for the two-bath method of operation. Here is his report in his own words:

"I'm in a neighborhood that consists largely of factory workers, garage mechanics and other types of manual laborers. For the most part their drycleaning is made up of odd trousers which are badly soiled and spotted with grease, oil and perspiration. As a result, I have always been faced with the problem of a high percentage of clothes that needed steam cleaning and hand spotting. This is particularly true in summer weather. In fact, 18% to 20% of the garments that came into my store had to be steam cleaned after going through the regular drycleaning cycle in the height of the summer season.

"For many years I have used soap in the Detrex Process by adding it to each load and later by the mild charged soap methods without benefit of clear rinse or high soap concentration. Some time ago, Detrex installed their new equipment which permitted the use of the two-bath method in the Detrex Process. The results have been outstanding for my operations. The percentage of garments requiring steam cleaning has been reduced to a maximum of 2½% of all garments cleaned. Spotting has been reduced to an almost unbelievable new low and pass-ups constitute 80% of my present volume. And these statistics were established during the hottest Detroit summer in 18 years.



"In addition to a regular drycleaning service, I also rent men's formal wear. In the summer, white tuxedo coats were a big cleaning problem when they came back from rentals because of the careless attitude of people toward rented clothes. Today, with the Detrex two-bath unit, it is only necessary to reclean an average of 8 coats out of every 100 even though the temperature has hovered around 90° for weeks. And believe me, that is a real saving over our previous performance.

"After testing a variety of cycle combinations, I settled on one best for me which consists of a 5-minute wash, 1-minute drain and 3-minute extract. This is followed by a 2-minute rinse in clear solvent, another 1-minute drain and 3-minute extract. The entire cycle is controlled by a switch on the front of the machine . . . there are no valves or other mechanisms to monkey with during operation. I add moisture to every load of clothes regardless of the material being run. One hour of distillation per day keeps fatty acid to minimum and I clean my filters only half as often as I had to previously.

"Having tried the use of soap by almost every conceivable method over a period of time, I can confidently say that my drycleaning today is better quality and lower in cost than ever before. And just as important, quality-control is so simple that I am now looking for another store."

DROP IN . . . See our exhibit, Booth 953-5, AIL Convention, Atlantic City . . . October 2 thru 5.

National products that make their mark

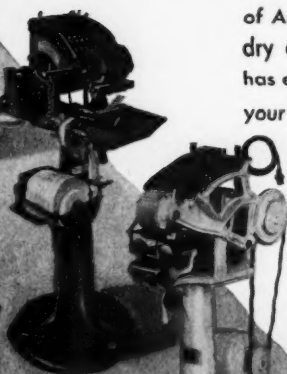
National

Lever Principle
Hand Marking Ma-
chines... standard
equipment in small
laundries.



National

Power Tag-
Making Machines... a favorite
with large dry cleaners.



National

Power-operated
Marking Machine No. 8... a must in
large laundries.



National

Marking and Breaking Tables
...used where speed and efficiency are vital.



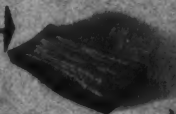
National

Net Pins for quality that means long life.



National

All-Wool Felt Pads.



National

Marking Inks for every purpose.



THE

National

MARKING MACHINE COMPANY

4026 CHERRY STREET

CINCINNATI 33, OHIO



Buy Starch

Just think! The difference in cost between ordinary starch and Satinette is only a penny or two a pound.

But what a difference it makes in smoother finish . . . greater pliability . . . customer satisfaction. And the penny comes back in greater economy. Since Satinette is non-congealing, you use it *all*.

THE KEEVER STARCH COMPANY
COLUMBUS 15, OHIO

STARCH COSTS SO LITTLE
IT PAYS TO USE THE BEST



Satinette

HALF CORN

KEEVER STARCHES

STANDARD LINE



*New products . . . greater service
. . . better-finish. That's what Keever
Sales-Service Men now offer
you with the Keever purchase
of Standard Chemical Works.*

*The consolidation of activities is more
than in name only. To Keever's
proud 54-year reputation is added
a line of sours and blues unsur-
passed in quality since 1912. This
union means improved research
facilities and better distribution . . .
offers you greater know-how in
modern laundry practices than ever
available before. Rely on your
Keever Sales-Service Man.*

STANDARD CHEMICAL WORKS

COLUMBUS 12, OHIO

A Subsidiary of The Keever Starch Co.



Calgon

IS INDISPENSABLE
IN 3 KINDS OF
WATER!

- 1 HARD WATER!
- 2 SOFT WATER!
- 3 ZEOLITE-SOFTENED WATER!

Regardless of the kind of water you use, the instant you add soiled fabrics you add hardness. The hardness elements in soil react chemically with soap and alkali. They form an insoluble dirty film resulting in lower-quality work. They tie up soap, resulting in higher costs.

Adding Calgon is the cheapest, surest way to solve this problem that's present in any washing operation in any kind of water. Calgon ties up the hardness elements added to water by soil . . . keeps film from forming . . . removes film built up in previous washings. You do better work . . . at lower over-all cost.

Remember—Calgon makes any soap wash better . . . makes any water rinse better.



*Use Calgon** IN THE FORM THAT'S BEST SUITED TO YOUR NEEDS!
for quality laundering . . . wetcleaning . . . rug and upholstery shampooing!

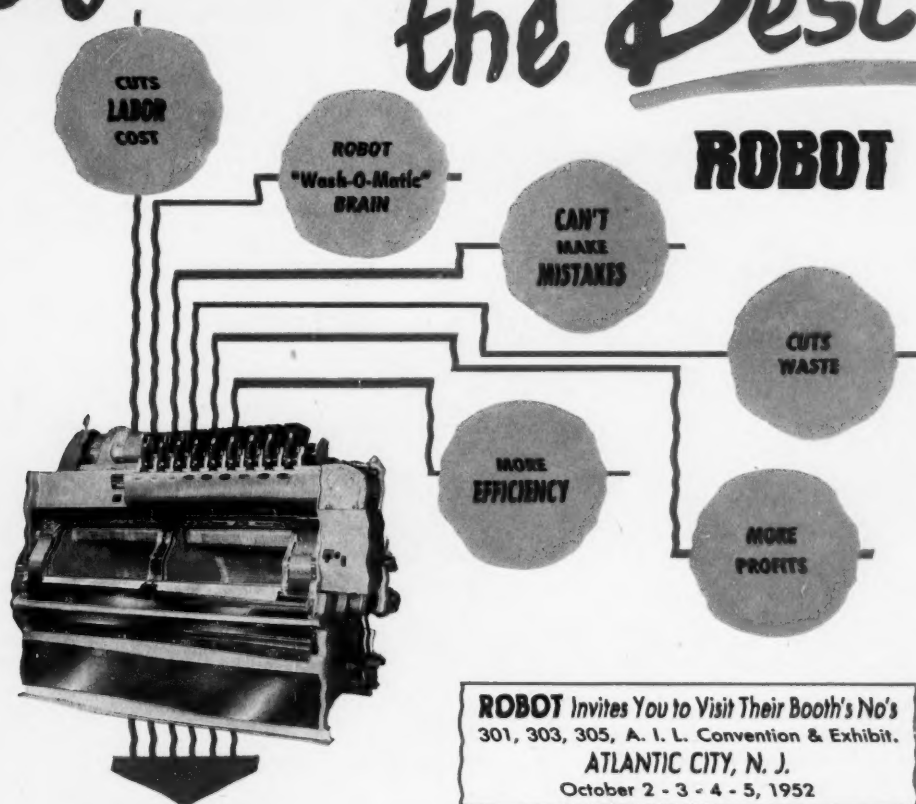


*Calgon is the registered trade mark of Calgon, Inc., for its vitreous sodium phosphate products.

Instant Calgon is available in 25 lb. drums and in 100 lb. bags. Calgon in regular form is available in 100 lb. bags. Order from your distributor or write to Calgon, Inc.

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October 2 - 3 - 4 - 5, 1952

WRITE TO-DAY

Robot Laundry Machinery Sales
Division of The Wolf Company
Chambersburg, Penna.

Please send without obligation full information
on **ROBOT** Self-contained Automatic Washers.

Name

Company

Address

City Zone State



ROBOT

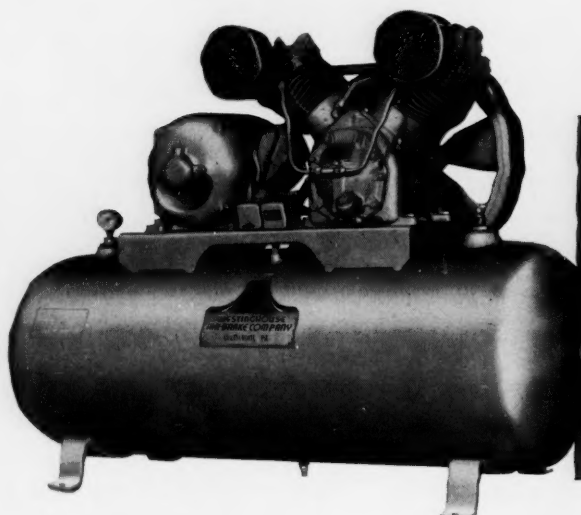
LAUNDRY MACHINERY SALES
DIVISION OF THE WOLF COMPANY

CHAMBERSBURG, PENNSYLVANIA

THE FIRST AND ONLY SELF-CONTAINED COMPLETELY AUTOMATIC WASHER

DOUBLE *the air*

TRIPLE *the protection*



Westinghouse "YS"

It's **DOUBLE** the air with the Westinghouse single-stage "YS"—for two working cylinders team up to multiply the volume at every stroke.

And it's **TRIPLE** the protection with a Westinghouse single-stage "YS". The reason? Check these protective features—only the Westinghouse "YS" gives you *all three*.

1. **LOW OIL LEVEL PROTECTION**
2. **THERMAL OVERLOAD PROTECTION**

3. **STARTING UNLOADER**—Interlocked with Controlled Pressure Lubrication.

Naturally the Westinghouse "YS" offers you all the other modern features as well—automatic pressure control, multiple "V" belt drive, etc. Full range of ratings from 9.68 to 75cfm, with 1½ to 10 HP motors.

For dependability, economy, buy a Westinghouse "YS", or for further details, ask for Bulletin IDC 9302-3.

Westinghouse Accessories Add to Compressor Efficiency **WATER-COOLED AFTERCOOLERS**



Remove moisture . . . deliver dry air to the machines. The Westinghouse Type "W" Aftercooler is available in a full range of sizes.

PRESSURE REDUCING VALVE



Durable, dependable . . . supplied in varying capacities and for pressures ranging from 5 to 250 lbs.

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PERFECT FINISH KEEPS THE WELCOME MAT OUT FOR YOUR ROUTEMEN

In the competitive battle against home washers, your strongest ally is perfection of finish. Always make your finish tops by dressing all your presses and flatwork ironers with famous Red Edge Knitted Padding!

The unique construction of *Knitted Padding* holds billows of steam . . . it cushions the work and absorbs damaging excess pressure. Your work, done on Red Edge Padding, will be beautifully smooth and crisp . . . the kind that opens doors for your routemen, and keeps them open, profitably for you! Resilient Red Edge works weeks longer between changes, keeps ironers and presses steadily on the job. Back up your routemen with the eye-pleasing, money-making finish delivered by Red Edge Knitted Padding.

RED EDGE DOUBLE THICK KNITTED PADDING

Three types: Cotton pads with cotton binders . . . cotton pads with asbestos binders . . . asbestos pads with asbestos

binders . . . all go on quick . . . last longer . . . come off quick! . . . all give super cushioned "perfection" finish.

RED EDGE Knitted Padding

AMERICA'S No. 1 CHOICE...

HUEBSCH



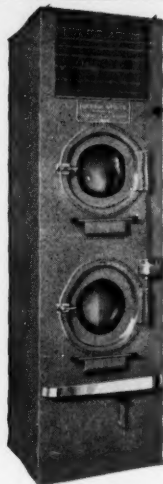
OPEN-END TUMBLER

Fast drying—Efficient and economical operation

—Quick easy loading and unloading—much less labor required—Sturdy construction—Low maintenance. Laundry type in 4 sizes—36" x 18"; 36" x 24"; 36" x 30" and 42" x 42" for large volume drying. Any of these sizes may be equipped with fused extinguisher and explosion proof motor for dry cleaning operation. Single, double or quadruple coils available. 42" x 42" size available only with double or quadruple coils.

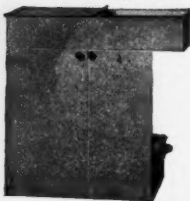
TWIN CYLINDER TUMBLER

This compact unit will dry the smaller fluff dry bundles such as towels, diapers, and similar small batches, more efficiently than they can be tumbled in larger machines. Each of the two 26" x 24" cylinders, set one above the other in a vertical housing, has a capacity of 15 pounds (dry weight). Drying time approximately 20 minutes. Substantially saves on floor space and tumbler investment. Heat resistant glass doors, door safety switch and large built-in lint trap, standard equipment.



FEATHER RENOVATOR—Model B with separate TRANSFER UNIT

A new, faster way to clean, restore and revitalize pillows. The Huebsch Feather Transfer Unit, which comes with Model B, transfers feathers from ticks to processing bags, and from processing bags back to the ticks after the feathers have been cleaned and the ticks washed. Thus the Renovating Machine can be used full time for steaming and drying feathers, with no time lost in the transferring process. Can also be used as a regular tumbler.



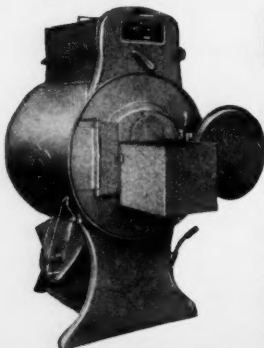
DOUBLE SLEEVER

Shaped to fit the largest variety of sizes. Combination of double taper and notched edges produces better and faster work than any other method.



FEATHER RENOVATOR Model A

Cleans, restores and revitalizes pillows that are flat, lumpy and lifeless. Provides a proved source of additional volume and profits for your business. About 7 processing bags filled with feathers, can be processed at one time. Model A Feather Renovator can also be used as a regular 4-coil laundry tumbler.



ALLWAY PANTS SHAPER

Goodwill and business is lost if trousers are too short or too tight. Cleaners find it necessary to wash larger percentage of regular suit trousers. Allway resizes and shapes length, calf, thigh, seat, crotch and waistband. May be had in Standard model or with fan and steam coil unit.



QUALITY EQUIPMENT FOR LAUNDRIES and DRY CLEANERS



FORM-RITE COLLAR SHAPER AND IRONER

Gives quality appearance and maximum comfort. Because the collar is most important, Form-Rite is the most important machine in your shirt line.

CHIEF HANDKERCHIEF IRONER

Low initial cost—Quantity production—Quality finish—Economical operation. Produces perfect work because handkerchief or napkin is completely straightened and squared on the pad before it is ironed. Shown is the 20 inch model for handkerchiefs or small napkins only, and is complete with Discovery Fluffer mounted on ironer. Also available, 25 inch model, air rotated or manually rotated for all sizes of handkerchiefs and napkins.

ROOT GARMENT BAGGER

Keeps your bagging up to the minute . . . eliminates drivers waiting. Adjustable rod accommodates longest garments. Easy to swing longest bag off of bagger. Model with racks for holding garments to be bagged also available.

SPRING-TYPE-FILTER

Cuts costs and improves dry cleaning service. Sturdy, compact unit illustrated is fast, efficient, and economical. Easier to clean and maintain. Has rated capacity of 2,000 gallons per hour. If greater capacity is desired, two filters can be used side by side, or one above the other. Priced lower than conventional filters of comparable capacity.

GARMENT DRYER

Both large and small cleaners will find the garment dryer a very useful machine. Adjustable hanger rod accommodates unusually long evening gowns. Five adjustable clamps hold dresses at the bottom.

AUTOMATIC VALVES

Increases production . . . improves the work, saves time and money. Easy to open . . . close automatically. Sturdily constructed for heavy duty in 1½ x 2" Two-way; 2 x 2½" Two-way; 2½ x 3" Two-way; 3 x 4" Two-way. Also made in Three-way and Four-way for laundries and one-way for dry cleaners.



HUEBSCH MANUFACTURING COMPANY

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Division of THE AMERICAN LAUNDRY MACHINERY CO.



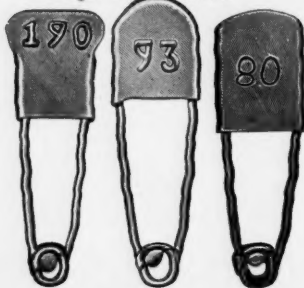
Alrite
Pin Tray, Many Sizes



Brass
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1" to 2 1/2"
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"Courteous sales representatives, knowing their product and what it can do.

Hoffman mechanics install equipment expertly and quickly without costly shutdowns.

The cost of repairs to Hoffman machinery is very small in comparison to other equipment I have owned.

Last but not least, I know from experience that Hoffman machinery has made me more profits by increasing my volume and decreasing the hourly work week."

"Hoffman salesmen don't oversell...you are not sold and loaded down with equipment you don't need. Rather, Hoffman Representatives help you determine your true needs...they realize that it is "a feather

in their cap" if they make yours a more profitable operation."

"Their know-how and helpfulness in designing and laying out of plant and equipment can be considered the standard for others to follow, if possible. From the blue-printing of your lay-out to the supervision of the installation, Hoffman men know what they are doing. Once your plant is installed your entire service needs are taken care of by the simple medium of a phone call to your closest Hoffman office."

"Hoffman Representatives are invariably a fountain of ideas...I selfishly welcome their visits because of the little "tricks" that they pass on to me...little big ideas that they absorb in their visits to other plants that saves us steps in our operation."

Excerpts from actual letters in our files...names on request

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... SINCE 1905



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Hoffman

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—restore the "New" look
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Customers stay customers with laundries that produce starch work that has the smooth, pliable "new" feel and look. Not too stiff, not too limp . . . but always "just right" in appearance and comfort. STAPEX® Starch can give your starch work that customer-satisfying "new look." Staley Starches are highly refined, cook completely smooth and lump-free. They offer trouble-free starching whether used in a wash wheel or automatic machine. Take a tip from the textile mill experts . . . more and more of them insist upon Staley's Starches. Call your starch man today . . . or write direct for further information about this better kind of laundry starch.

*Staley is one of the
country's largest
suppliers of starch
to textile mills!*



STALEY
Laundry Starches
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New Magic

for Reducing Laundry Packaging Costs!



The
Time-Saving
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THE PACKAGE THAT REFLECTS THE QUALITY OF ITS CONTENTS

Now you can turn out a smart, sturdy package every time . . . at less cost! . . . with Magiccorner Boxes. They set up in seconds . . . eliminate all the fussing with wrapping paper. The reinforced corners assure ample strength and rigidity to protect contents and preserve appearance. Five all-purpose sizes meet all packaging needs, keep your inventory at a minimum. Get complete facts on the efficient Lighter Method of distinctive laundry packaging . . . send coupon below.



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Laundry

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- Consistent service to the interests of the Laundry and Dry Cleaning Industries

Our Representatives are interested in YOUR supply and equipment problems . . . they are Qualified by training and experience to work with you in creating more efficient and economical operations . . . Call on them for cooperation at any time . . . it will be extended gladly at no obligation.

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ANTISEPTIC—The Safe and Certain Laundry Germicide

ALKALIS—Pensal; Metso; Metso 99; Cowles Detergent; Wyandotte Products; Prosperity Sodas; Soda Ash, Caustic Soda.
APRONS FOR IRONERS—Carman's Prosperity Apron Ducks in customary widths and weights—look for the purple stripe.
BLEACH—Sodium Hypochlorite; Perchlorate; HTH; Fitchlor; Penoxone; Chloride of Lime.
BLUES—Carman's Prosperity Blues—complete line; Erusto Blues; Escamo Blues.
COVER CLOTH AND DUCK—Oriole Coverings (medium weight); Carco Extra Duck (heavy weight), in widths to fit any ironer—look for the purple stripe.
FLANNELS—Carco Flannel—54" x 72"; Carvel Nylon Blanket; Ready-made press Banquets.
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NETS—Cotton Carmanets; Nylon Nets. All sizes and colors.
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SOURS—Carco Sours; Carcolite; Extra; Special; Carcoide; Carco DC; Carco Tint; Erusto Sours, Special and Regular; Erusticide; Wyandotte Sours. A complete line of "safe-to-fabric" sours.
STAIN REMOVERS—Carman's Carco Line; Oil-Go; Yellow Specific; Clear-O; Calad; Davies-Young; Erusto; Street; Wilton. STARCH—Keever's Salinette and Wheat-n-corn; Huron's Velvet Rainbow and Wheatex. Other brands for special purposes.

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WE MEET EVERY REQUIREMENT FOR LAUNDRY, RUG CLEANING, AND DRY CLEANING EQUIPMENT AND SUPPLIES WITH PRODUCTS DEVELOPED BY OURSELVES OR WITH PROVED LEADERS PRODUCED BY FOREMOST MANUFACTURERS.

THE MORRIS & ECKELS CO.

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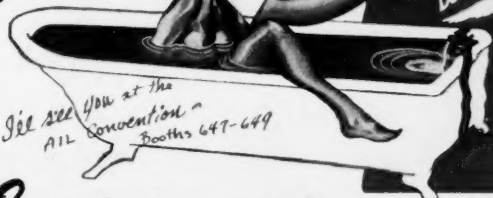
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*Where You Want it -
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THE CORRECT WATER LEVEL

HIGH MEDIUM LOW

— or anywhere in between —

AUTOMATICALLY

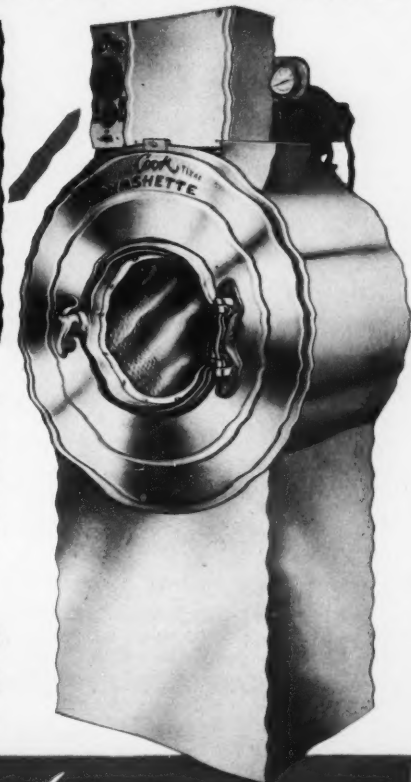
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Cook WASHETTES

with

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• COMPLETELY ELIMINATES FLOAT CHAMBER



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Another Great Cook "1st"



THE DIRECT REDUCING GEAR

has set a new standard of open-end washer efficiency and construction simplicity... standard equipment on the 25-pound Cook Washette shown at right.

Write for Details
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MACHINERY SALES CO.

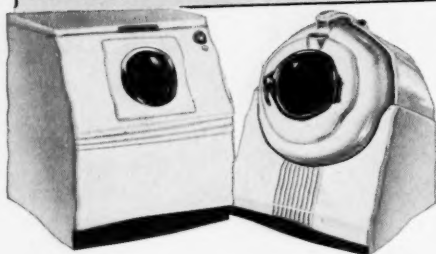
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Thinking about a "Self-Service"—"Quick-Service" Operation?

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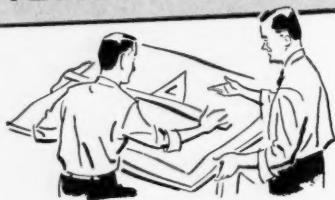
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Specially built automatic washers. Built to "Take It". Lowest price in the field!

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ALD helps you from blueprint to flowers on opening day... A COMPLETE SERVICE!

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• We will contact you personally to discuss the advantages of joining the ALD-Westinghouse family of operators. Contact any one of our 4 offices.



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AD-DRI WAY...
add dry bleach
directly to the
washer!"**



"See How Easy it is..."

just add Ad-Dri dry to the second rinse!
No other change in procedure is necessary
...simply follow your regular formula.
The handy Dri-Ader Measure shows
you exactly how much Ad-Dri to
use for each 100 lbs. dry
weight of wash."

AD-DRI IS NEW......the first significant advance in bleaching practice in 24 years!

AD-DRI IS SAFE......dissolves quickly in the second rinse; the Dri-Ader Measure packed in each drum assures accurate application...you get controlled bleaching...no overbleaching or underbleaching.

AD-DRI IS SURE......hundreds of laundering tests show Ad-Dri Bleach gives excellent whiteness retention with minimum tensile strength loss.

AD-DRI IS ECONOMICAL......no mixing or stirring—no tanks or crocks—no liquid bleach carboys—no bleach uncertainties—no waste. And Ad-Dri reduces storage problems.

Mathieson Ad-Dri Bleach is packed in convenient 100-lb. and 200-lb. "Leverpak" drums with full-opening removable and replaceable heads.

**"Write today for full
information. Use this handy
coupon for a quick reply."**



MATHIESON CHEMICAL CORPORATION
Baltimore 3, Maryland

Please rush all information
on new Ad-Dri Bleach today.

Name

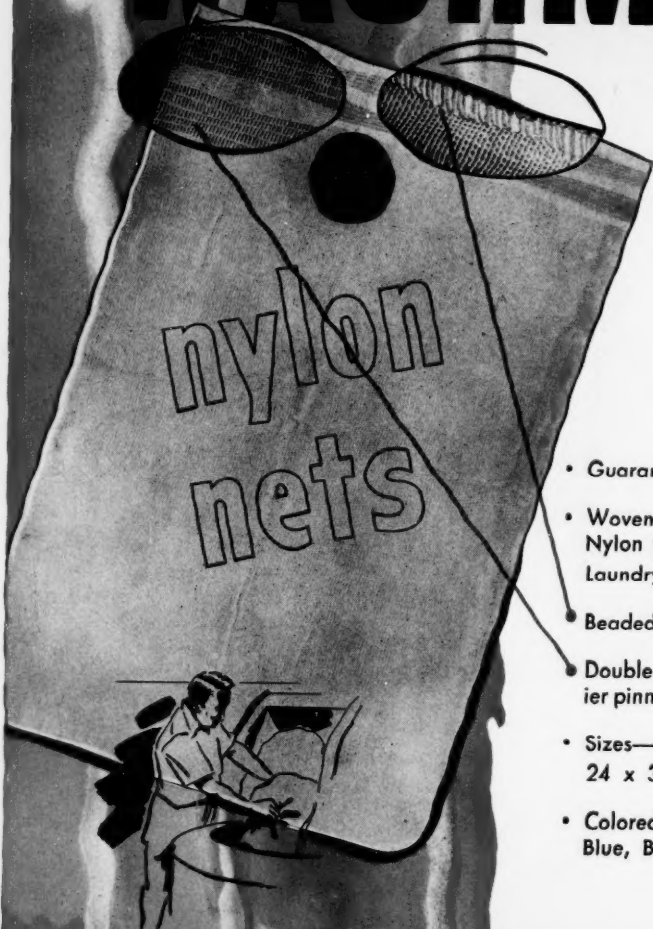
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"WASHMOR"



- Guarantees the lowest cost per wash
- Woven with the Heaviest and Strongest Nylon yarn developed by "du Pont" for Laundry nets
- Beaded edge for ease in handling
- Double pinning band for longer life, easier pinning and maximum capacity
- Sizes—12 x 18, 15 x 18, 18 x 30, 24 x 36, 30 x 36, 30 x 40
- Colored Edges—Red, Green, Orange, Blue, Black

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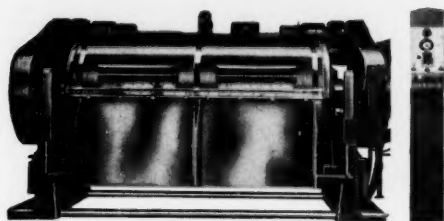
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FOR BETTER EARNINGS ALL THROUGH YOUR PLANT!



Ruggedly designed SUPER equipment is engineered to end expense . . . refined to eliminate waste motion . . . priced to pay dividends on every operation. Before you invest—investigate the SUPER Line. When you've got the facts, we believe you'll specify SUPER.

SUPER-TROL

An amazingly simple, dependable control which produces big savings in time, labor and supplies. Times all cycles accurately, performs every necessary operation from start to finish except adding supplies. Eliminates waste of steam, water and electricity.

CYCLE-TROL

A convenient, low-cost control. Automatically closes and opens dump valve pneumatically, counts cycles and signals end of cycle with both light and alarm. Prevents overwashing, saves time and electric power.



WASHING . . .

For peak efficiency in minimum space, here's the new **SUPER UNLOADING WASHER** (above) with pneumatic-powered "turnover." Boosts washing speed and capacity tremendously. Automatic or semi-automatic controls . . . one or two speed . . . AC or DC . . . single or double-end drive . . . in 42", 54" and 60" dia., all standard lengths . . . all stainless steel.

For conventional washing methods, **SUPER METAL WASHERS** are offered with removable horizontal metal partitions for easy unloading, or in standard open pocket design. Heavy stainless steel, offered in thirty sizes—from 30", 36", 42", 54" and 60" dia., in all standard lengths . . . push-button controls . . . one or two speeds . . . AC or DC . . . single or double-end drives . . . open and Y-types . . . one to 12 pockets . . . 60 to 900 lbs. dry capacity. Automatic or semi-automatic controls.

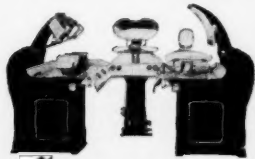
Jobbers in all principal cities. WRITE, WIRE OR PHONE FOR DETAILS:



EXTRACTING . . .

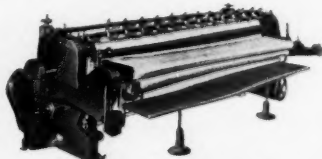
The **SUPER 48" and 30" EXTRACTORS** feature open-top, underdriven design . . . smooth acceleration, deceleration . . . positive safety cover interlock . . . all-steel outer curb . . . electric

self-actuating brake . . . selective timer . . . choice of stainless steel or Monel metal . . . 200 lb. and 80 lb. dry capacities.



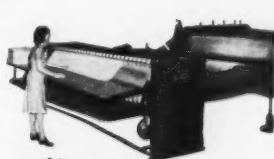
PRESSING . . .

Air-powered **SUPER AJAX LAUNDRY PRESSES** deliver outstanding production records and superb quality. Fast-action mirror-finished steel heads exert tremendous pressure. Matched shirt and linen supply units, plus all other head and buck styles. Two-hand safety controls.



IRONING . . .

Choose **SUPER CHEST-TYPE FLATWORK IRONERS** in 2, 4, 6 or 8 roll sizes for any desired capacity. Two-roll size available in return-apron model where floor space is limited. Or choose the famous **SUPER CYLINDER IRONERS** in 1, 2 or 3 cylinder sizes . . . both sides ironed in one pass!



FOLDING . . .

For large flatwork volume, **SUPER AUTOMATIC FOLDERS** with electric-eye operation deliver enormous savings . . . fold 12 to 16 sheets per minute direct from ironers with only one girl receiving. Handles flatwork from 30" to 90" range; by-passes out-of-range articles automatically. Adaptable to almost any type of flatwork ironer.

ALL SUPER EQUIPMENT built to rigid Federal specifications. Get genuine SUPER parts and service.

SUPER LAUNDRY MACHINERY CO.

A DIVISION OF ST. JOE MACHINES • "SINCE 1877" • ST. JOSEPH, MICHIGAN



YOU CAN'T SOFTEN YOUR CUSTOMERS WITH HARD WATER

What's the biggest profit-builder in the laundry business?

There is only one considered answer to that question: **zero-soft water and lots of it!**

You say the biggest profit-builder is getting business? Of course it is, but how can you get the business without doing a superlative job . . . and how can you do a good job without zero-soft water and lots of it?

Despite the complete recognition of this throughout the laundry field, a recent investigation shows: (1) that there are many laundries using water with as much as three grains water hardness that do not have water softeners (2) that there are laundries which use softened water only for washing—not rinsing (3) that there are surprisingly few laundries which have sufficient softened water for boiler-feed, hot water systems and cleaning.

If your laundry falls into any of these classes, the Elgin "Double Check" Softener can make real profit for you. It will do this by giving you up to 44% more soft water from a given size softener—by giving you *all* the soft water you need without premium price.

Yes, **zero-soft water and plenty of it**—not just enough for washing, but enough for rinsing, boiler-feed and cleaning! It will pay its way in soap and soda savings, in speeded and better rinsing, in freedom from boiler cleanings, in increased boiler life, in reduced pipe maintenance cost, in easier cleaning, in happier personnel, and in that big end-result: more and steadier customers.

Note the operation of the Elgin "Double Check" Softener explained opposite.

Write for Bulletin 609—20 pages of interesting facts about soft water for laundries.



ELGIN SOFTENER CORP.
150 N. Grove Ave.
Elgin, Ill.



ORDINARY
DESIGN



ELGIN
DESIGN

SAME SIZE UNITS . . . SAME TYPE ZEOLITE

Up to 44% more soft water

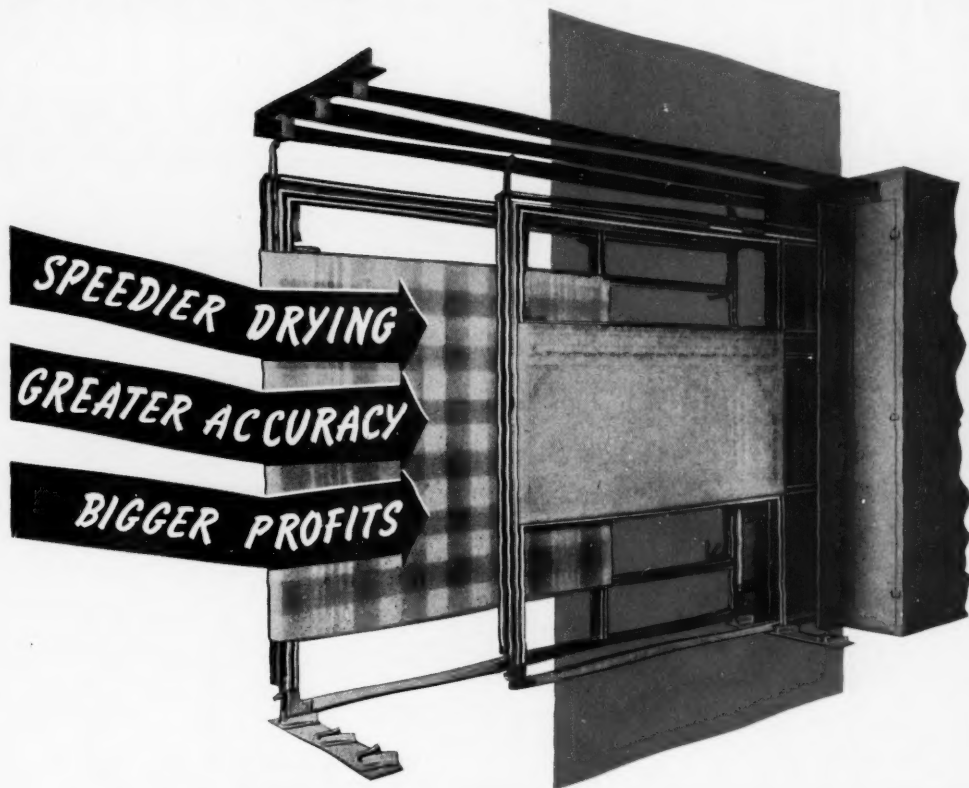
The diagrams above show why the Elgin "Double Check" Softener gives 44% more soft water—from the same identical softener using the same identical zeolite. The Elgin "Double Check" manifold system does the trick — prevents costly escape of zeolite; permits the use of far more zeolite, the mineral that does the softening. The Elgin method also permits a high back-wash rate that means better regeneration from less salt.

Also adaptable to your present softener

In hundreds of plants we have stepped up the delivery of soft water by equipping existing softeners (any make) with Elgin "Double Check" Manifolds. Cost is low; here is how it figured out in one case: manifolds, \$130.00; added zeolite, \$71.00. Soft water generation was stepped up to that of a new \$1200.00 softener. There's an easy way to make a thousand dollars! Our district engineer will be glad to explain this.



SOFTENERS • CHEMICAL TREATMENT • FILTERS • BOILER WATER CONDITIONING



WITH HOPKINS SQUAREWAY *Curtain and Blanket* STRETCHER

SQUAREWAY Stretchers provide faster drying, increased volume, superior quality work . . . all of which means to you, bigger and better profits from handling blankets, bedspreads, banquet cloths, portieres, yardage materials and all size curtains.

Hopkins SQUAREWAY Stretchers are easy to operate. Only two split-second adjustments are needed. A simple twist of the wheel, a pinch of the finger-tip control handle, and a pair of curtains are perfectly set. When dry, a slight touch on the release lever deliv-

HOPKINS
"BLANKETMASTER"
Blanket Washing
Machine elimi-
nates shrinkage!
Write for
bulletin.

ers curtains perfectly matched for size. One operator handles the whole job!

Proper tension is always maintained because Hopkins Stretchers are built to stretch the "square way". Precision controls make perfect right angle adjustments.

SQUAREWAY Stretchers are supplied in combination with DRYMASTER Drying Cabinets as shown above, or on casters without cabinets.

For complete information and name of nearest jobber, write

HOPKINS EQUIPMENT COMPANY
HATFIELD, PENNA.

GARMENT HANGERS • GARMENT FINISHERS • SOLVENT FILTERS • SPOTTING UNITS • DRYING CABINETS • CURTAIN STRETCHERS • BLANKET WASHING MACHINES • WATER REPELLENT TANKS • SPOTTING ATTACHMENTS

A "MASTER"
Alfred Hopkins
ENGINEERED PRODUCT

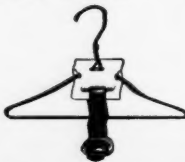
PROPER PROTECTION



Non-Shift is the original square top wire garment hanger. It is stronger to hold all types of women's and men's garments. It anchors the garments in properly centered position, protects your careful finishing and holds proper shape at all times.



Scientifically designed to create a cushion of air at neck and shoulders to fully protect your final pressing operation. Quick, simple to use. Available with your advertising message.



Holds belts or neckties firmly in place without pins by locking securely in place over hanger hook.



PARA-LUX PRODUCTS COMPANY

LINCOLN BAG COMPANY, INC.

4200 WEST SCHUBERT AVENUE • CHICAGO 39, ILLINOIS

Serving the laundries and dry cleaners of America

Wonders!



Greater operator output is achieved with this amazing collar support. It is quickly inserted inside the collar band to remain in 4-way, locked position.



Holds 1 to 12 neckties by tension without wrinkles or pin holes. Preserves perfect finishing.



No lint rubs off. Standard and deluxe styles. Slotted ends fit all standard size wire hangers. Holds trousers smooth.



PROTECTION for your services



Keeps ties safely protected over Ti-Rak. Fine quality, heavy white kraft with sales compelling message.



Assures neat, no-pin delivery of garments. Eliminates hanger covers and tissue paper coverings.



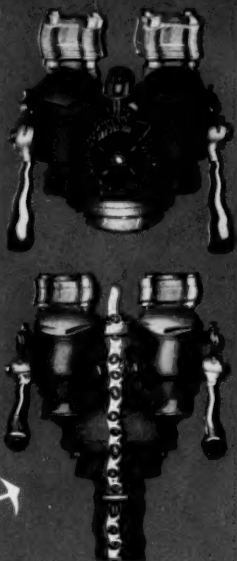
Allows easy separation of garments on racks, either alphabetically or numerically. Hangs on racks just like garment hangers.

Save WATER, SUPPLIES, STEAM

With CHACE Automatic Valves

METER TYPE VALVES. Automatically measure flow of hot and cold water to washer in gallons. "Standard" (150 gal.)—1½"x2", 2x2", 2x2½" or 2x3" inlet and outlet connections. "Detroit" (300 gal.)—2½"x2½" or 2½"x3" inlet and outlet connections. "Master" (400 gal.)—3" inlet at back or side, 4" outlet.

FLOAT TYPE VALVES. Automatically measure flow of hot and cold water to washer in inches of bath level. "Standard"—1½"x2", 2x2", 2x2½", or 2x3" inlet and outlet connections. "Detroit"—2x2½" or 2½"x3" inlet and outlet connections.



By accurately measuring the flow of water to washers, then shutting off water *automatically*, Chace Valves prevent waste of water, steam and supplies . . . save operating time.

Manufactured by the world's largest producer of professional laundry equipment, Chace Valves and parts can be obtained from your laundry machinery distributor, supply house or your AMERICAN representative.



CHACE VALVE DIVISION
The
AMERICAN
LAUNDRY MACHINERY CO.

CINCINNATI 12, OHIO

REVOLITE

REG. U.S. PAT. OFF.

Puts Facts In Writing!



Write or phone for your copy of the REVOLITE Guarantee and complete information about REVOLITE Roll Covers.

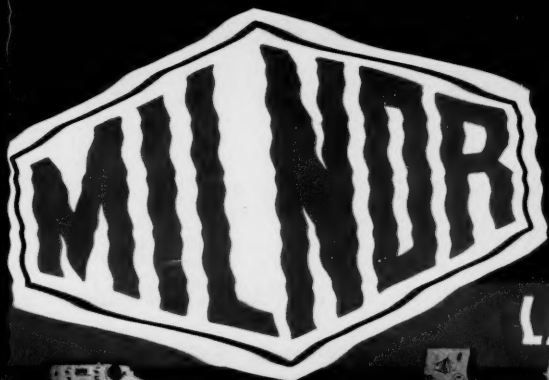
Send for a copy of the REVOLITE guarantee. It gives you assurance—in writing—that REVOLITE Roll Covers will outperform all others . . .

- Last longer
- Increase the production of your flat-work ironers
- Give you top-quality work
- Reduce shut-downs for cover changes.

ATLAS POWDER COMPANY
Stamford, Connecticut

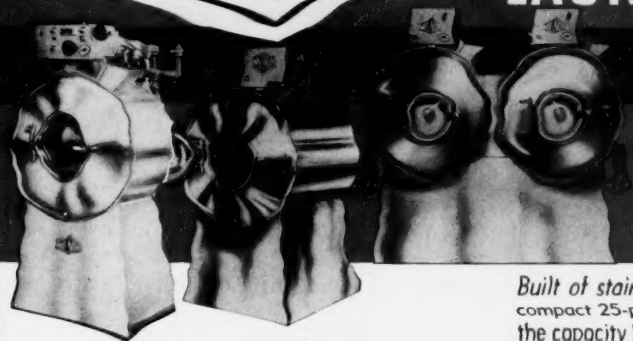


Service from every angle
... that's **REVOLITE**



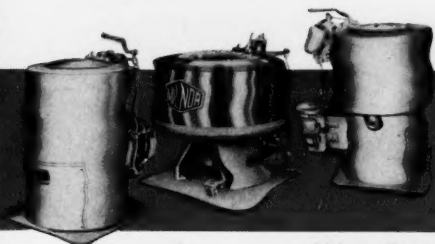
...the modern laundry system

LAUNDRY EQUIPMENT



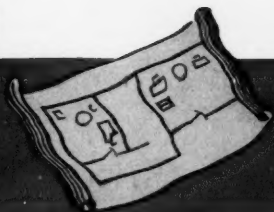
WASHERS

Built of stainless steel, Milnor washers are available in the compact 25-pound capacity model, the 50-pound size, double the capacity but with only a small increase in floor space, and the 25-pound dual, all specially designed for individual bundle washings. All models are available with manual, semi or fully automatic sequence timer controls.



EXTRACTORS

Milnor Extractors are rugged and dependable. They are sturdily built to withstand the punishment demanded of an extractor by the laundry and dry cleaning industries. New special features on all sizes of Milnor Extractors make them the best for hard, continuous use. Available in 17", 20", 26", 30", 40", 48", and 60" sizes.



PLANT LAYOUT SERVICE

Milnor engineers will be glad to supply free of charge plant layouts that are proven by their practical application in plant installations. We can help you re-design or lay out your laundry facilities. When you utilize our Plant Layout Service you will be assured better procedures, more economy, higher quality and higher profits.

SEE OUR DISPLAY IN BOOTHS
800 & 802 AT THE A. I. I.
CONVENTION, ATLANTIC CITY,
OCT. 2 THRU 5, 1952.

MAIL THIS COUPON TODAY FOR FREE CATALOGS AND
INFORMATION ABOUT THE MILNOR SYSTEM OF INDIVIDUAL WASHING.

Pellerin  CORPORATION

8000 EDINBURGH STREET, NEW ORLEANS, LA.

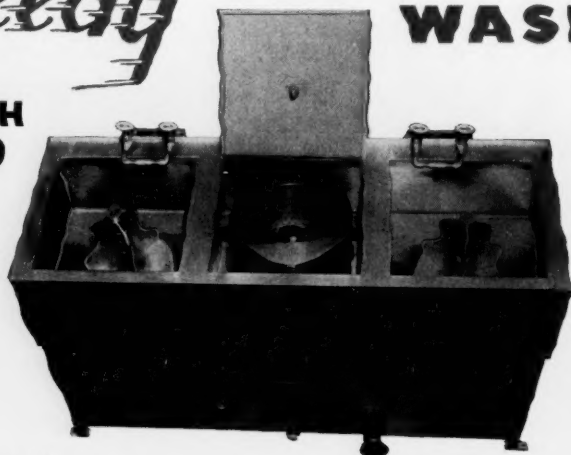
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8000 Edinburgh St.
New Orleans, La.

Send me information about the Milnor
System of Individual Washing.

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CITY STATE

Speedy**THIS****WASHER****WILL WASH
RINSE AND
EXTRACT****8 to 10****NINE POUND
LOADS
PER HOUR****IS THE
ANSWER
TO THE
"QUICK
SERVICE"
LAUNDRY
PROBLEM****EFFICIENT
ECONOMICAL
PROFITABLE****SEE IT IN
ACTION AT A. I. L.
CONVENTION,****ATLANTIC CITY
BOOTHS
#243 & 342**

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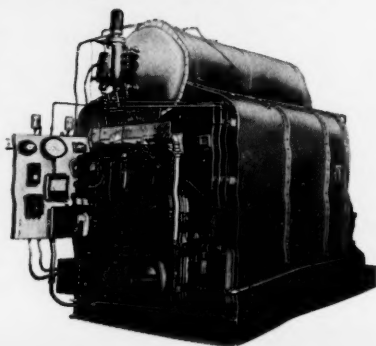
**SPEEDY WASHER MFG. CO.
5500 N.W. 2ND AVE.
MIAMI—FLORIDA**

ERIE "KEYSTONE" IS MY NAME—I'M AUTOMATIC,
THRIFTY, CLEAN, POWERFUL, FRUGAL WITH OIL OR GAS—
PUSH A BUTTON TO START ME—I'M AS FLEXIBLE AS A
FLAME, NO NEED TO BANK ME OVERNIGHT—JUST BANK
THE SAVINGS I EARN EVERY HOUR I OPERATE!

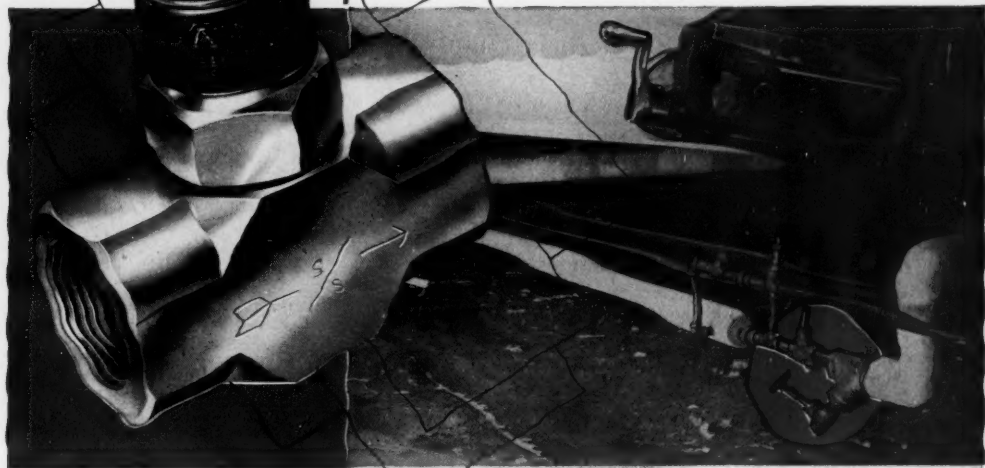


THE ERIE Keystone Steam Generator is a 2-drum water tube boiler, heavily insulated and steel cased. It is standardized in capacities from 75 h.p. up, shop assembled and equipped for automatic oil or gas or both firing methods. It offers big boiler performance in small cubage—a fast steamer fully automatic and requires no brickwork—no stack.

For complete details write for
BULLETIN SB38

**ERIE CITY IRON WORKS** *Erie, Pa.*

roll out the flatwork 50 ft. more per minute



It happened in a Kansas City Laundry . . . one 8-roll flat work ironer was equipped with a 1½" Yarway Impulse Steam Trap. Another identical machine had a 2" conventional-type trap.

When pyrometer readings were taken to check performance, it was a real eye-opener. On the Yarway-trapped ironer, temperatures were 335° to 340° on each chest—on the other 310° to 320°. But the real payoff was in production. Because of the higher temperatures, the Yarway equipped ironer operated at 110 ft. per minute, compared to only 60 ft. per minute for the other!

That's an example of what we mean when we say Yarway Impulse Steam Traps are designed to increase production—by sending the most premium B.T.U.'s at top temperatures into your process or product. *They get equipment hotter, sooner . . . and keep it hot.*

Add these features—small size, easy installation, one moving part, low maintenance, low cost, good for all pressures.

Many thousands of plants are using Yarway Impulse Steam Traps with outstanding success. Over 750,000 Yarways have already been installed . . . 216 industrial distributors stock and sell them. There is one near you.

Write today for the new Yarway Steam Trap Book.



the steam trap designed
with production in mind

YARNALL-WARING COMPANY 129 MERMAID AVENUE, PHILADELPHIA 18, PA.

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**S. R. F. THE AMAZING
SHORT RINSE
FORMULA**

INEX the miracle rinsing aid...made the Short Rinse Formula possible. And it's an exclusive development of the Kohnstamm Research Laboratories!

INEX made old laundering processes obsolete overnight!

INEX makes the whitest whites you've seen in your life!

INEX gives results you can see in a single wash!



**HERE'S A PROPOSITION
THAT GUARANTEES THE MOST
BRILLIANT WORK YOU'VE EVER SEEN**

It's simple! It's amazing! It's what you need to pull the laundry business out of the doldrums...to more than satisfy your customers. This is a business proposition that never fails to work because there is nothing like it on the market today. Just read this three-step, can't lose proposition.

1. Try Inex and the Short Rinse Formula on your loads.
2. Examine the finished work and ask your customers to judge the difference too.
3. Compare the time each load took! Compare the savings in time, fuel, water and labor. If you're not surprised and excited by Inex and the Short Rinse Formula, we'll take back the materials and the trial will cost you nothing!

S.R.F.
lifts laundry
quality far above
any competition!



ADD UP YOUR SAVINGS

Savings on fuel
 Savings on water
 Savings on sewage disposal charges
 Savings on water softening... salt equipment, regeneration
 Savings on soap through adequate supply of soft water

Savings in time
 Savings in labor
 Savings in wear and tear on washwheels
 Savings in production costs... more loads per day
 Savings in customer goodwill... your best advertisement

...and they all add up to a BIG saving in DOLLARS!



EVEN THE MOST SKEPTICAL ARE NOW CONVINCED!

Inex is here to stay. It's proved itself the greatest washing technique advance of the last decade. Millions of pounds of work are now being laundered with Inex and the Short Kinse Formula every week, and the figure rises every day by thousands of pounds. There's just no arguing with success that shows in the very first load you try!



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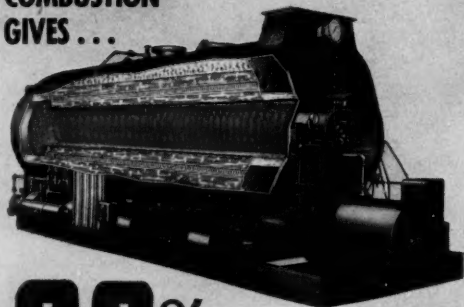
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OF QUALITY LAUNDRY AND CLEANING SUPPLIES

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**ONLY CYCLONIC
COMBUSTION
GIVES . . .**



66% MORE POWER
per sq. ft. of heating surface

By reducing heating surface requirements from 5 to just 3 sq. ft. per B.H.P., Cyclonic Combustion produces 66% more power per sq. ft.—saves up to $\frac{1}{3}$ the space of conventional package steam generators. Cyclonic Combustion is the revolutionary new flame control used exclusively in Cyclotherm steam generators. Flame characteristics are controlled in a revolving spiral vortex traveling the full length of the furnace to insure maximum heat transfer without direct flame impingements or hot spots. The cyclonic action of the flame accounts for a 65 to 75% heat transfer within the main fire-tube. This high rate of heat transfer enables Cyclotherm 2 pass generators to maintain a guaranteed minimum efficiency of 80% for any steam requirement.

Cyclotherm steam generators with patented Cyclonic Combustion offer these additional features: Full power operation from a cold start in 15 to 20 minutes; Savings up to 50% on maintenance; Greater fuel savings; Boilers designed for oil or gas operation from 18 to 500 h.p., 15 to 200 psi operation pressure.

Proved superior in thousands of installations, Cyclotherm steam generators with new Cyclonic Combustion offer the most efficient and compact package steam generator on the market today. Find out more about Cyclotherm and Cyclonic Combustion—write today, for a free illustrated folder.

The Cyclotherm meets all state requirements and is built in accordance with A.S.M.E. and National Board Standards and bears the label of Underwriters Laboratories, Inc.

CYCLOTHERM
STEAM GENERATORS



Cyclotherm Division U. S. Radiator Corp.
Dept. 35
Oswego, New York

Please send without obligation my copy of "All Your Questions Are Answered by Cyclotherm."

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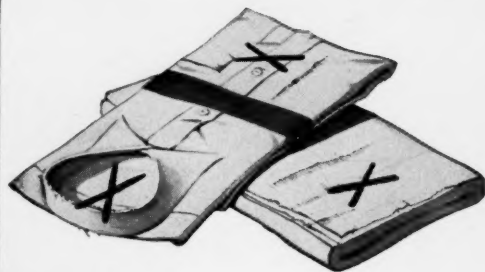
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Banish

WASHROOM WEAR

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DREW OIL BUFFERING

Washroom wear . . . caused by harsh detergent action . . . can be completely eliminated through use of Drew Detergents.

Drew Detergents not only provide extra cleaning punch . . . they also feed natural oils back into the fabrics, protecting them from Washroom Wear.

DREW OIL BUFFERED DETERGENTS

Napthole B
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Drew Oil Buffered Detergents enhance the "feel" of fabrics, give them softer, smoother finish and longer life. For full information and free catalog, write

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E. F. DREW & CO., Inc.

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PHILADELPHIA
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**DREW
PRODUCTS**

THE LARGEST LOADING DOOR for Easy Handling of
Rugs, Blankets, etc. Diameter 18 in. Area 255 sq. in.

Compare!
the NEW
Bill Glover
25 LB.
OPEN-END WASHER
with
Any Other
on the Market



BACK VIEW...with Guard
Enclosing All Moving Parts, Removed.

WINSMITH
GEARED SPEED
REDUCER

THERMOMETER

TOP
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of Electrical
Equipment

PULLEYS

Largest used
on any
washer
Guarantees
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REVERSING
MOTOR

10,000 LB.
water-proofed
SEAL-MASTER
BALL SHAFT
BEARINGS

ONLY
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BELT

DUMP
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PIN TRAP
protects
dump
valve

STAINLESS STEEL
Shell-Cylinder and Base

WATER-SEAL

Finest made . . . Will with-
stand temperature of 450° F
and 150 lb. pressure

Available
with NEW
Glover Auto-Trol

Most flexible and practical
controls ever built! Anyone
can change formula to any
need. Comes with three—not
one—standard formulas for
white, colors, and blankets.
Change from automatic
to manual with the flick
of a switch.

The handsome new
Bill Glover 25-lb.
Open-End Washer
was designed *even
bigger and better
than your own speci-
fications!* There is
supreme quality in all components—cylinder
over 30" in diameter, 15" in depth . . . rpm
better than 30 . . . four ribs 4" high for greater
drop . . . equal reverse to eliminate tangling.
WASHING ACTION IS OUTSTANDING
. . . **IT SAVES WATER AND PRODUCES**
THE FINEST WORK. This new washer
occupies only 34" by 35" of floor space.

See the NEW Bill Glover at the Atlantic City
Convention, October 2-3-4-5!

See Your Jobber
Bill Glover, Inc.

Made to make deliveries easy!

Take a look inside an International with Metro® body. See how it helps make deliveries easy.

Metros offer up to 375 cubic feet of package capacity. Easy to load and unload, and so economical they've been first in multi-stop truck sales for 14 straight years.

See all the outstanding features these smart-looking Internationals offer before you buy any truck. How about today?

INTERNATIONAL HARVESTER COMPANY • CHICAGO

Check these outstanding Metro advantages:

- Silver Diamond valve-in-head engine built in the world's largest truck engine plant.
- Maximum maneuverability—37° turning angle, more positive control, safer, easier handling.
- Leader in the multi-stop delivery field for 14 straight years.
- Six models—with GVW ratings from 5,400 to 11,000 pounds. Cubic foot capacities—235, 292 and 375.
- Matched body and chassis built to your specifications under one roof to save you money.
- America's largest exclusive truck service organization.



International Harvester Builds McCormick Farm Equipment and Farmall Tractors... Motor Trucks... Industrial Power... Refrigerators and Freezers

•Metro. Registered trade mark of The Metropolitan Body Company, Inc., subsidiary of the International Harvester Company.

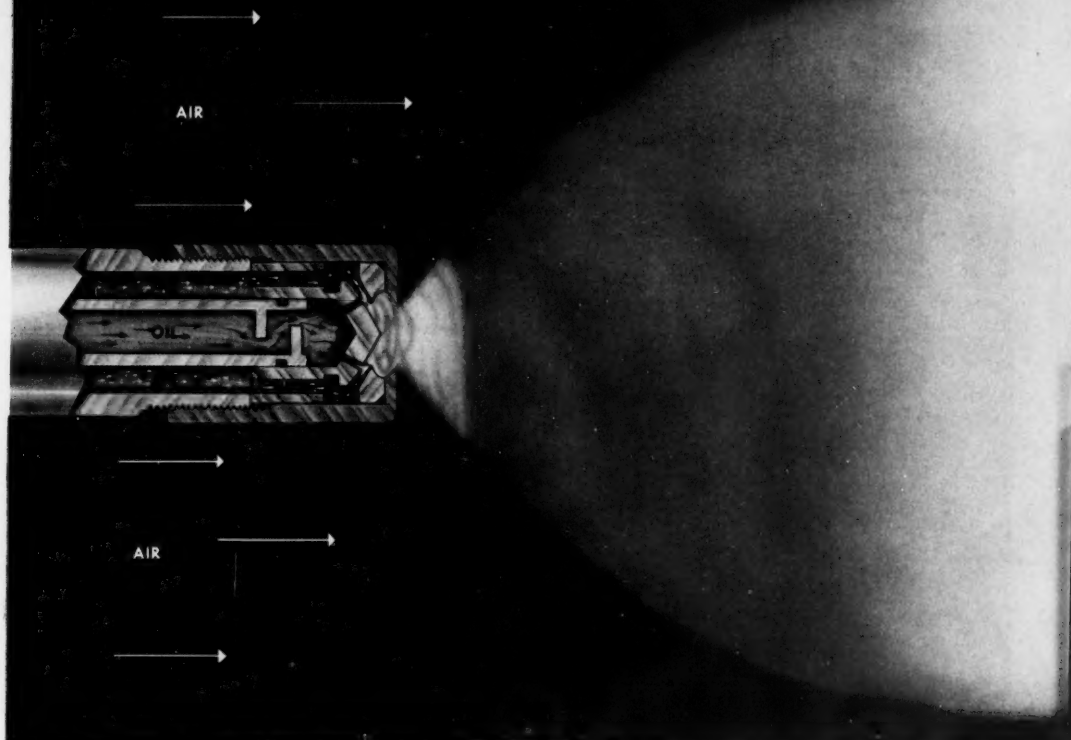
INTERNATIONAL TRUCKS

Standard of the Highway



Model LM-122 with 9½-foot Metro body, 115-inch wheelbase, 6,600 lbs. GVW

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NOW—only Powermaster gives you VORIFLOW combustion !

LATEST DEVELOPMENT IN BURNER DESIGN REDUCES COSTS AND INCREASES BOILER EFFICIENCY

Here's what *Powermaster's* new VORIFLOW burner will do for you:

1. Saves fuel by providing infinitely variable combustion modulation in response to demand—with *full efficiency*—through wide range from 30% to 100% of firing capacity.

This means elimination of waste and maintenance headaches because of incomplete combustion. With the exclusive design of the VORIFLOW burner, tiny jets of compressed air pulverize every droplet of oil . . . projecting a fine fog of oil/air emulsion into the combustion area where it ignites and burns—immediately and completely. The VORIFLOW burner does

away with outmoded mechanical spinning devices, globules of wasted oil, and gummy cleaning problems.

2. Slashes boiler maintenance costs.

There are *no* moving parts to wear out • There is *no* cup to clean daily. Routine cleaning of the burner once a month is sufficient • There is *no* burner vibration to throw adjustments "out of whack" • Parts are made of stainless steel, brass, and beryllium copper—they will last indefinitely.

3. The combination burner permits rapid change-over from one fuel to another—light oil, heavy oil, or gas.

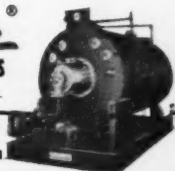
And when we say "rapid" we mean just that—the job can be done in four minutes. Modulating firing controls are ready to go into action at the flick of a switch. It isn't necessary to change the entire burner assembly. All you need to do to fire gas is to remove the oil nozzle.



Before deciding on a boiler for your plant, be sure to get the facts on the newest POWERMASTER with VORIFLOW combustion. Write for this catalog that gives you the entire story of the *Powermaster* packaged automatic boiler. Just drop us a line and we'll put one in the mail for you.

Powermaster®
PACKAGED AUTOMATIC BOILERS

In sizes to 500 HP; pressures to 250 psi.



ORR & SEMBOWER, INC. • Established 1885 • 1000 Morgantown Road, Reading, Pennsylvania

IT'S MORE EFFICIENT!

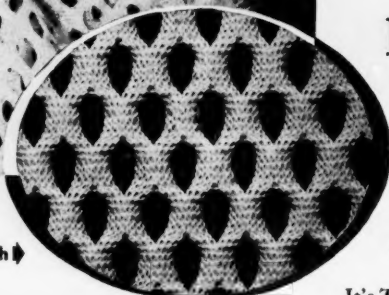
IT'S MORE ECONOMICAL!

IT LAUNDERS LONGER!



➡ Speeds up pinning

Actual Size, Open Mesh ➡



It's the NEW Callaway Knitted Nylon Callanet!

It's THE ANSWER to laundry net headaches!

It's *The* Nylon net you've been hoping for.
Open mesh insures speedier pinning—just what
you've been asking for, waiting for—*now it's here!*

Contact your Callaway Representative for
further details of CALLANET—the laundry net that's
made the way you'd make one for yourself if you
could.

PROFIT BY THESE SUPER CALLANET FEATURES!

1. Streamlined, lightning-fast pinning.
2. Day-light mesh that won't "fog up"—lintless.
3. Free passing of insolubles.
4. Suction action—cleaner, whiter loads.
5. Wider opening—easier loading.
6. Faster dumping without reversing.
7. Low absorption—very little to extract.
8. More pounds per wheel—bigger pay loads.
9. Labor saving—time saving—space saving.
10. Long lasting—dollar saving.
11. Made by pioneers in net manufacturing.

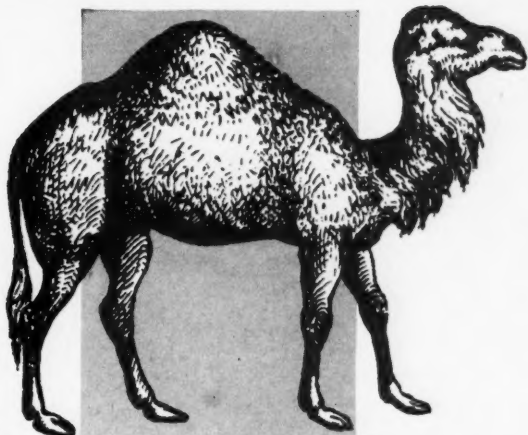


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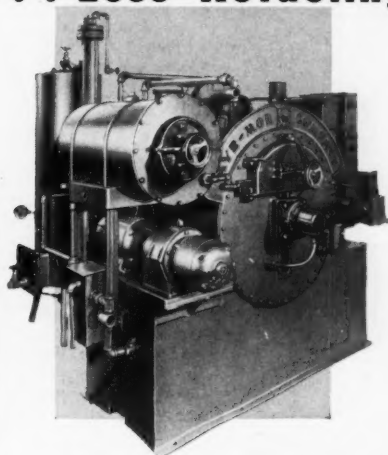
—Handles up to 45 pounds of soiled clothing—washes, extracts and airs
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—Filter has 1800 Gallon Flow—
Makes possible faster,
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—Greater recirculation and
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Ayr-Mor DOES MORE for You!*



MORE PRODUCTION • MORE SAVING • MORE PROFIT!

Ayr-Mor's Greater Capacity—and automatic operation—cut your operating costs and thus increase your net profit. The new Ayr-Mor Compact handles more clothes in less time and with less labor. In addition, Ayr-Mor reclaims more—gets back a higher percentage of solvent—another big saving for you. Ayr-Mor's sturdy construction—the result of 20 years' experience—means additional savings; saving of maintenance cost; saving in machinery depreciation.

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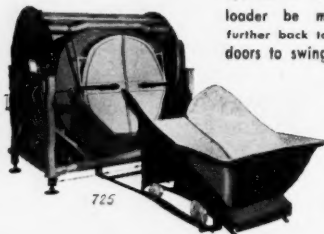
724—Heat conditioners must have a door to cover the cone opening and retain the heat. The counterbalanced door opens automatically when the unloading lever is operated.



722—Note position of the simple counterbalanced door when open. Note also the finned heating coils and the opening in the perforated wall to allow cleaning. (Conveyor loader is in loading position.)



723—Tumbler is in unloading position. The door stays in this position during return and loading of cylinder. Note housing which covers finned steam heating coils.



725—Note divided door model, a simpler door than the door that raises up, but it requires that loader be moved 13" further back to allow the doors to swing open.

PROOF

That the "Bigmouth" can save you money

With Heat-Conditioning You Can Eliminate Hand-Shaking

The Purkett "Bigmouth" Tumbler is now heat-conditioning (not a drying tumbler). Heating flatwork while tumbling it makes it softer, mellow, more flexible and much easier to handle. "Bigmouth" tumblers tumble the heated flatwork until wrinkles and curled selvages are removed and the goods are ready for the ironer—no hand-shaking necessary! This requires approximately five minutes for a full load; however, even ten minutes' tumbling, if possible, is better. In the past, shake-out tumblers had almost duplicated hand-shaking. Now, with the addition of heat, mechanical shake-out machines are even more efficient than hand-shaking methods and have eliminated much labor. The 72-inch "Bigmouth" has an enormous capacity and loads and unloads non-stop. It loads on one side and unloads on the opposite side, the load traveling in the proper direction for further processing. One Purkett 72-inch heat-conditioning tumbler has the capacity to keep several flatwork ironers busy.

The unheated 72" tumbler holds 200 lbs. or the full load from one 48" extractor or one basket of the removable basket type extractor, depending on the volume which will stay in the tumbler without falling out of the cone opening. The heated 72" tumbler, however, has a door which covers the cone opening and larger loads of the smaller pieces may be tumbled.

726—The divided door swings open automatically and remains out of the way of the cylinder during the entire unloading and loading cycle. It closes tightly and retains the heat well.



Visit us at Booths 513 and 515 at the AIL Convention in Atlantic City, October 2-5.

These users and many others found it profitable to purchase PURKETT 72" TUMBLERS

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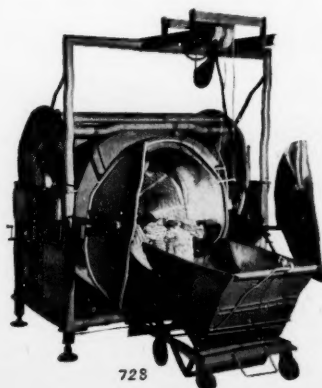
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Purkett equipment is sold by all major laundry machinery manufacturers and by Purkett Manufacturing Co. Write for additional information on both models 48 and 72.

PURKETT

MANUFACTURING COMPANY

JOPLIN, MO.



728 — Illustrates hoist raising hinged hopper of loader truck, to permit the load to slide into the tumbler.

728



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EXTRA YEAR
you get from
DIVCOS

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Tags that tear, disintegrate or shred in processing mean lost dollars. **TAGS MADE OF PERMAFIBER STOCK** defy the strongest solvents and solutions; won't tear or scuff in work; won't break at fastening point; and they stay with the garment from start to finish.



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Stop watching those dollars go down the drain! If faulty tags are costing you money in garment replacements, wasted labor and customer irritation, do what hundreds of America's most efficient plants are doing . . . insist on

MARKING TAGS

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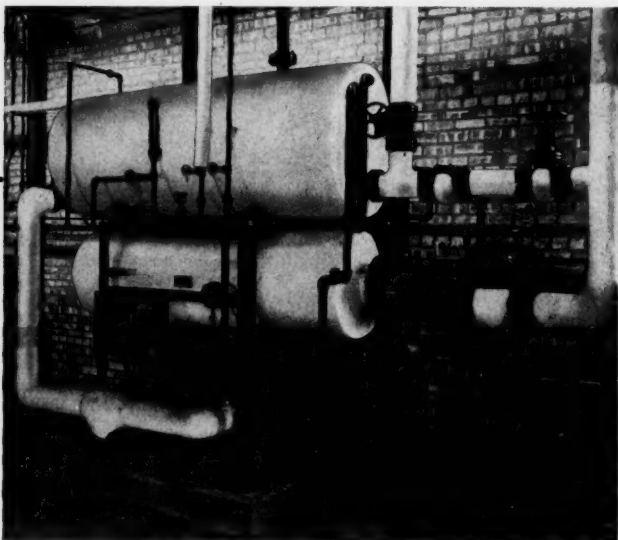
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SCHAUB

BOILER RETURN SYSTEMS

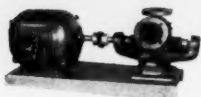
Schaub Heat Reclaim Boiler Feed System, Model SSC-D, at Chapman Laundry, Hammond, Ind. 350 HP boiler load; 125 lbs. W.S.P. (All process machines are equipped with Schaub "QUIK-TEMP" Metering Units draining to separate Schaub accumulator.)



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Only Schaub offers you the combined exclusive money-saving features illustrated at the right. Any one of these alone would be a sound reason for buying a Schaub System over any other. Take time to compare details. Then you'll quickly see why Schaub gives you *more* for your money on every feature. In terms of real savings — you get improved operating economy, lower maintenance costs and longer equipment life. All this means your return system costs you less per year. Know the facts and you'll readily recognize that a Schaub Boiler Return System is your best value.

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For thorough dirt removal, excellent whiteness maintenance and exceptional safety to fabric strength, no other soap can top Ozonite's performance. A month's trial will prove this to your complete satisfaction.

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OZONITE
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ONLY *Fletcher* EXTRACTORS offer such a complete range of sizes

Yes, Fletcher alone can supply the right size extractor for every laundry requirement. With our "Junior" Extractor made with 30" and 33" basket sizes and the famous "Whirlwind" with baskets in 40", 48" and 60" diameters you can now balance your extractors with your washers.

At the same time, you can be sure of getting Fletcher's many design features and high quality construction. Remember, we are specialists in the manufacture of extractors and have the experience and know-how to assist you in solving your extracting problems. Our engineers will gladly consult with you—or if you'll tell us the size in which you are interested, descriptive bulletins will be sent you.

30 inch-
55 pounds*

33 inch-
90 pounds*

40 inch-
130 pounds*

48 inch-
190 pounds*

60 inch-
300 pounds*



The "JUNIOR"

- Safe—Won't start until cover is closed. Cannot be opened until basket is stopped.
- Smooth stainless steel basket cannot harm fabrics.
- Exclusive Fletcher "Super Self-Balancing." High stability up to 10 pounds out of balance.



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- Heavy stainless steel basket—glass smooth interior. No corrosive steel reinforcing bands. Permanently safe.
- Finger-tip control for automatic braking.
- Easy to load and unload.
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* Pound capacities are for woolen fabrics, dry weight.

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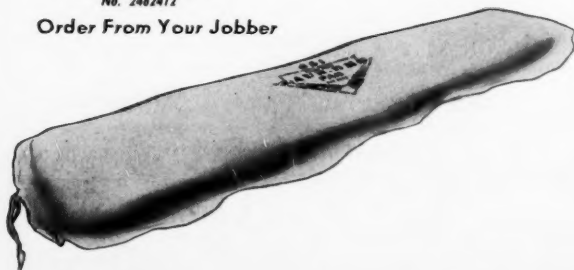
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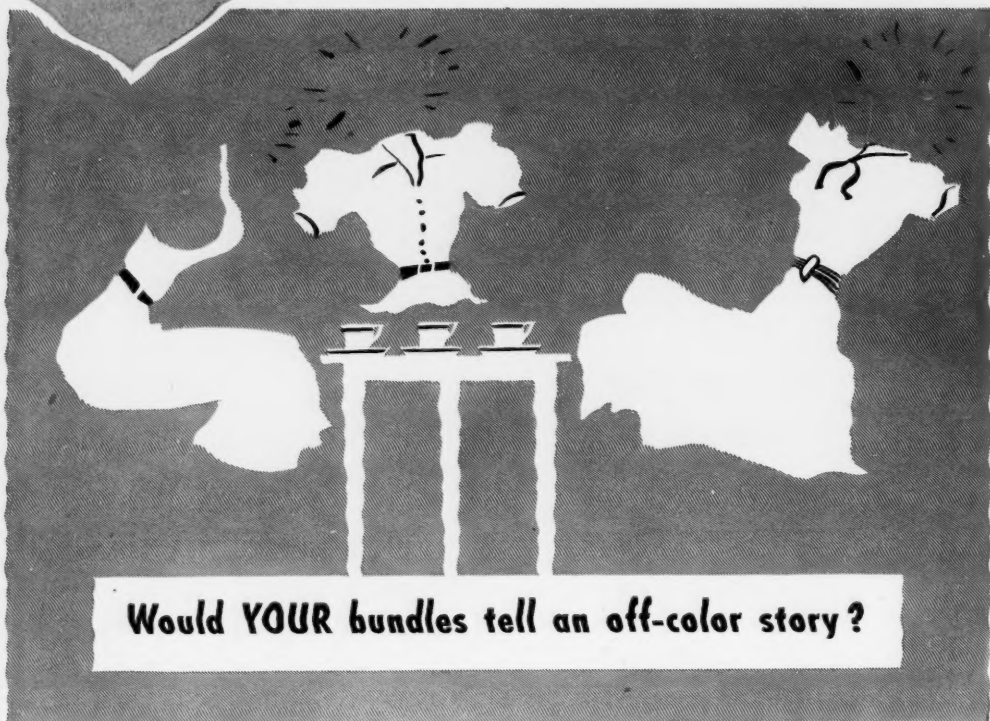
- Eliminates tearing down of Press to repad in the middle of the day.
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DIAMOND DETERGENTS

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Metasilicate	Ortholite
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BLUES

Liquid Blue R (Red)	Liquid Blue G (Green)
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To get true color retention at low cost—

DON'T buy a detergent that's stronger than you need,

... that doesn't dissolve completely.

... that's more expensive than you need.

DO call your **DIAMOND Technical Serviceman**. He'll analyze your water supply, your soil conditions and your operation, and prescribe the **DIAMOND** compound that will give you **best results at low cost**.

If you haven't taken advantage of this free **DIAMOND** service, why not call your **DIAMOND** sales office now? And start getting all the advantages of **DIAMOND** laboratory-engineered laundry detergents.

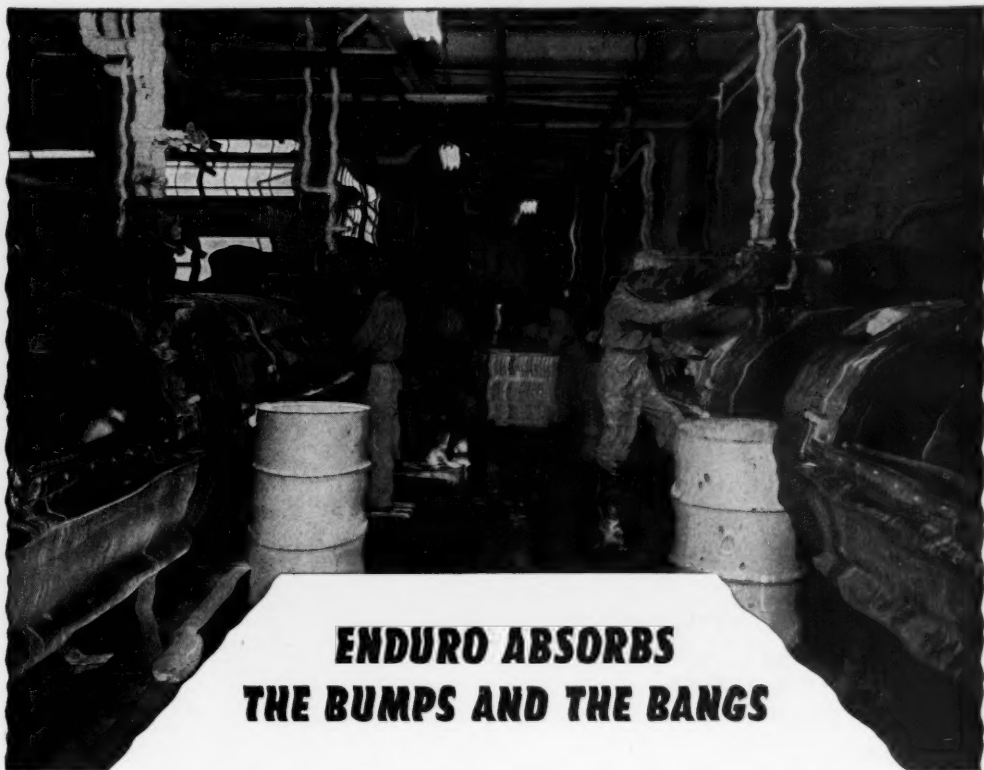
DIAMOND LAUNDRY DETERGENTS ♦ SOURS ♦ BLUES

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DIAMOND



CHEMICALS



ENDURO ABSORBS THE BUMPS AND THE BANGS

● Crash! go extractor baskets against washers. Smash! go laundry trucks and washing compound containers into equipment. Pound, pound, pound! go identification pins and weights. Unavoidable, yes. But not necessarily damaging when washers, extractors and other equipment are made of Republic **ENDURO** Stainless Steel.

ENDURO safely absorbs the bumps and the bangs of hard laundry usage. Among the toughest and strongest of metals, **ENDURO** resists denting and scratching. Resists wear. Even constant opening and closing can't wear **ENDURO** pocket washer covers down to dangerous sharp edges.

ENDURO won't tarnish or blacken on you, either. It's solid stainless steel all the way

through . . . permanently bright . . . with no plating to chip or wear off. It resists rust and corrosion, resists the action of washing compounds and bleaches, is easy to clean and to keep clean.

For your new equipment and replacement programs, think **ENDURO**! Several types are available now. Republic metallurgists always are happy to discuss **ENDURO** applications for laundry and cleaning equipment with you and with your suppliers. Just call your nearest Republic District Sales Office, or write to:

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Full-color, 16 mm sound film
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Dramatic . . . historic . . . interesting. Available to qualified groups without charge.
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the NEW MAR-MAK "THERMOCON" THERMOSTATIC DRY CLEANING SOLVENT TEMPERATURE CONTROL

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Sold . . . ON MONEY BACK
GUARANTEE

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★ We Manufacture ALL SIZES from 2,000 to 50,000 GAL. FILTERS, WATER Plus REFRIGERATED-COOLED UNITS—DUAL CONTROLS. The Same UNIT HEATS in Winter and COOLS in Summer.

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another **BENWALL** achievement!

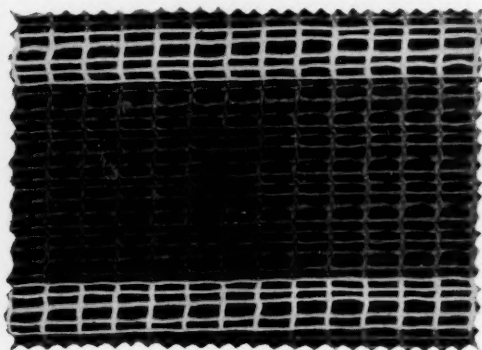
The first premium quality Nylon Net

PILGRIM WOVEN OPEN-MESH NYLON NETS
With Colored Stripes

Pilgrim Open-Mesh Weave promotes maximum detergency and whiteness-retention. A must for diaper services to get thorough removal of solids.

Benwall's Pilgrim Open-Mesh Nylon Nets will outlast cotton nets 4 to 1 and cost less than 2 to 1. Save 50% in annual net costs!

Wide, colored stripes . . . woven-in, makes classification easy, yet they cost no more than plain white nets.



Enlarged photograph of PILGRIM Woven Construction, each cross-thread anchored by two-way twisted weave.

Benwall offers the only complete line of Nylon Nets for every purpose!

1. Famous PIONEER 2 x 2 Nylon Nets in solid white.
2. PIONEER 2 x 2 Nylon Nets in 6 choices of brilliant colored stripes: Blue, Green, Red, Black, Brown and Gold.
3. PIONEER 2 x 2 Solid-Color Nylon Nets in Red and Blue, woven from pre-dyed, fast-color yarn.
4. And now . . . PILGRIM Open-Mesh Nylon Nets in white and 6 choices of colored stripes.

We cordially invite you to visit our booths, #435-
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BENWALL

MANUFACTURING COMPANY, INC.

2859 Atlantic Avenue

Brooklyn 7, N. Y.

BENWALL MFG. CO., INC.

2859 Atlantic Avenue, Brooklyn 7, N. Y.

Gentlemen:

Please send us prices, sizes, and a sample swatch of the New PILGRIM WOVEN OPEN-MESH material:

Name.....

Address.....

City.....

State.....

My Jobber is.....



"The sergeant says that using Swift's Soaps is the best way to make 'em come clean!"

You can't blame the sergeant for his "great" expectations. He probably listened *too well* to an enthusiastic laundryman praising the performance of Swift's Soaps.

Our only claim is that you'll find the *right* soap to fit your laundry needs in Swift's complete line. You know, of course, that it's good business to

use the *right* soap—and plenty of it!

To develop even better products for your purpose, Swift's Technical Laundry Research Division is working daily on soap and laundry problems. This means that Swift Soap products always have the quality and effectiveness to help you get better results in your laundry.

Call SWIFT first
for soaps

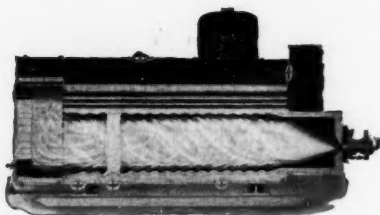
Listed below are some of Swift's fine soaps. You can order any one of them from Swift's distribution points coast to coast and expect immediate delivery.

White Ribbon Chips & Powder
Guaranteed Laundry Powder
Formula S Powder
Break-O Powder
Wool Soap Flakes & Powder
Glory Chips

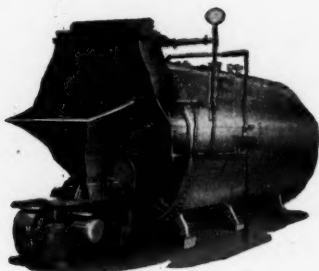
for years and years of efficient, dependable service . . .

Leffel

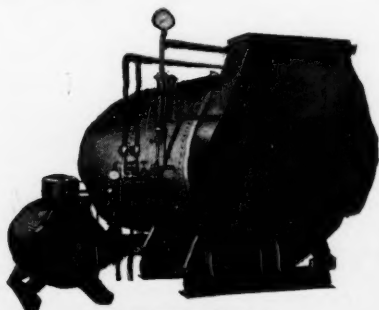
SCOTCH TYPE BOILERS



OIL OR GAS FIRED



STOKER FIRED



HAND FIRED WITH COAL

You leave your boiler worries behind when you specify a Leffel Scotch Type Boiler. Yes, generations of Leffel users will assure you that you can depend on your Leffel boiler to give a full output for many, many years.

Leffel boilers are available in a complete range of sizes to suit your steam production needs—and are given standard commercial ratings, not inflated maximum ratings. That, plus the sturdy heavy-duty construction, means you get full capacity during the entire life of the boiler instead of during just the first few months. It also means that a substantial overload can be carried with complete safety.

Designed to burn coal, gas or oil, Leffel boilers can be easily converted from one fuel to another. And their savings on fuel will amaze you—users report 20 to 40 percent fuel cost reductions.

Compact, easy to install, easily cleaned and easy to maintain, Leffel boilers add up to real economy for your plant operation. Plus the values of outstanding efficiency and output over a long period of time. Before you buy a boiler it will pay you to get the facts on a Leffel Scotch Type Boiler. Write, wire or phone . . . today!

Your investment is secure since you can quickly change from one fuel to another if necessary.

11-52



THE JAMES LEFFEL & CO.

DEPT. S, SPRINGFIELD, OHIO, U. S. A.

MORE EFFICIENT STEAM GENERATION FOR 90 YEARS



Specialists in Laundry Cleaning Products



Mr. William Hirsch (left) and superintendent inspecting fugitive-colored load.

COLOR-SPARK cuts rewashes to less than 1% ... saves soap ... brightens colors

That's what Mr. William J. Hirsch, proprietor of the Anchor Laundry Company, Minneapolis, Minnesota, reports. In his own words:

"We're well pleased with the results of using Wyandotte Color-Spark. We wash light, colored work with no soap now, using Color-Spark. This method has cut down our rewashes to less than 1%, and eliminated odors. In addition, Color-Spark gives us unusually fine results on silks, wools, and with all of our wet cleaning in our dry-cleaning department."

CLEANING
THE
WORLD

Wyandotte COLOR-SPARK* is a complete product . . . replaces soap for washing colored work, and may be used for the break on other classifications. It removes perspiration stains, picks up loose dye and prevents redeposition on fabrics. COLOR-SPARK contains a special Wyandotte ingredient for fast penetration and free rinsing, and CMC for high soil suspension.

You'll benefit, too!

Chances are that with COLOR-SPARK you, too, will save soap . . . have soft and fluffy, rancid-free fabrics . . . add snap and sparkle to your colors!

Ask your Wyandotte representative for further information about COLOR-SPARK — and about other Wyandotte products designed for better washroom results. Wyandotte Chemicals Corporation, Wyandotte, Michigan; also Los Angeles 12, California. *REG. U.S. PAT. OFF.

 **Wyandotte**
CHEMICALS

Helpful service representatives in 138 cities in the United States and Canada.

Largest manufacturers of specialized cleaning products for business and industry

When writing to advertisers please mention STARCHROOM LAUNDRY JOURNAL

FOR YOU

7 WAYS TO SAVINGS ON BETTER QUALITY PRODUCTION



**Nylon
Press
Covers**

3-dimensional, scientifically engineered to fit with precision and simplicity—in slick or non-slip surface.

Plant-Designed Plant-Tested Fabric Products for Laundries

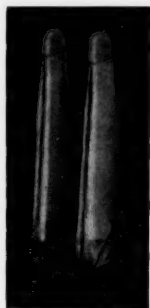
Practical aids for the practical plant operator —to give you the utmost in low-cost efficiency and better production.

Want to turn out a better, more profitable bundle that will satisfy customers and bring them back? Want to equip your plant so your workers will get the most out of equipment? Then study these products—they do a sensational job.



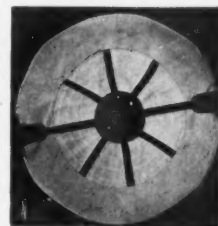
Asbestos Boots

No need now to cut excess flannel. This boot will double life of expensive flannel —prevents transfer of scorched flannel— gives better press performance, eliminates exhaust moist heat—keeps buck hotter and drier. Ideal replacement cover for metallic flannels.



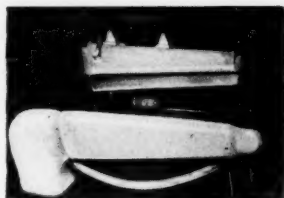
Cabinet Sleeve

New and distinctive cover slips over and completely encases cuff block. No cords to tie or burn — precision made, better finish, long wear.



**Sav-A-Load
Extractor
Covers**

Two thicknesses of extra heavy apron duck reinforced at all important points with nylon webbing, nylon-stitched.



Sleeve Cover

Slip on—slides over completely in seconds. Snug fitting, lightning slick, clean and easy to use. Here's real production help.



**Ever-Moist
Nylon
Containers**

Keeps washed loads from losing dampness before finishing. Work stays "seasoned" for extra hours in long lasting Nylon—at a price no more than conventional canvas.



**Claim-Saver
Separator**

Easy-to-use method for eliminating flat-work mixups—cheap insurance against loss and trouble—in sizes for all ironers.

FABRIC SPECIALTIES FOR BETTER BUNDLES

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About Bonn Products**

**F. H. BONN
COMPANY**

**619 W. Fulton St.
Chicago 6, Ill.**

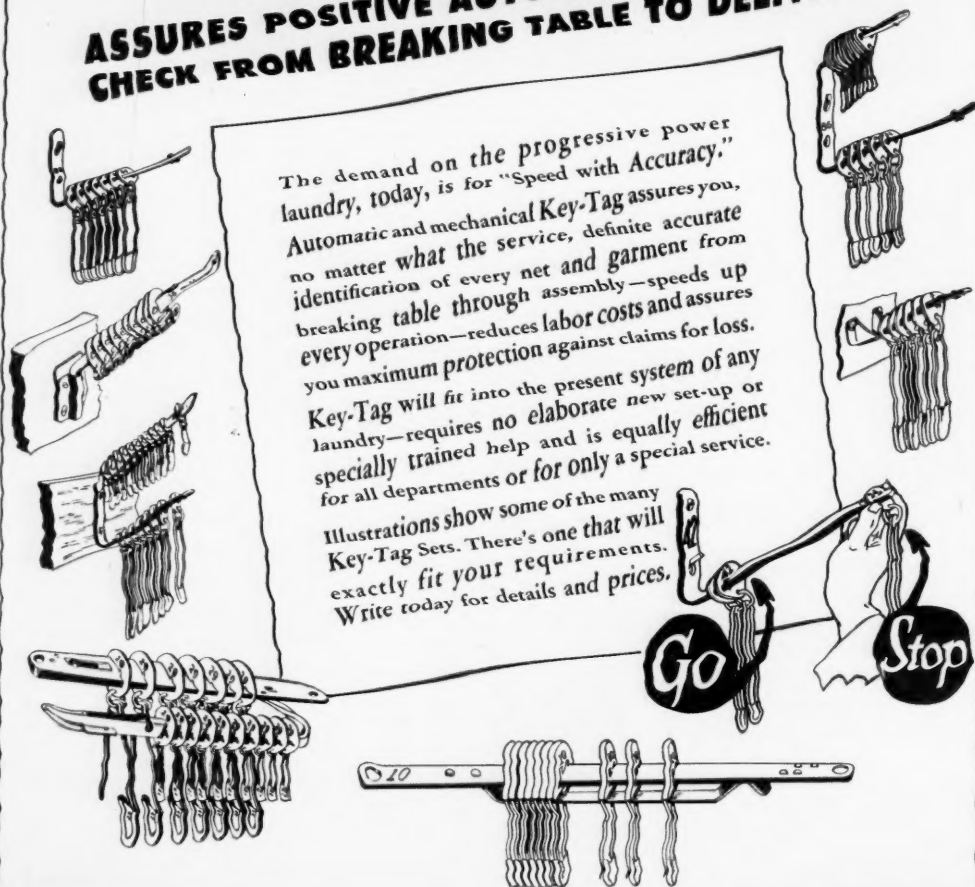
For Proficiency – Protection – Profits

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KEY-TAG CHECKING SYSTEM

**ASSURES POSITIVE AUTOMATIC MECHANICAL
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The demand on the progressive power laundry, today, is for "Speed with Accuracy." Automatic and mechanical Key-Tag assures you, no matter what the service, definite accurate identification of every net and garment from breaking table through assembly—speeds up every operation—reduces labor costs and assures you maximum protection against claims for loss. Key-Tag will fit into the present system of any laundry—requires no elaborate new set-up or specially trained help and is equally efficient for all departments or for only a special service. Illustrations show some of the many Key-Tag Sets. There's one that will exactly fit your requirements. Write today for details and prices.



**Saves Time
Money and
Worry**

THE KEY-TAG CHECKING SYSTEM CO.

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CLEVELAND, OHIO

**Locks Out
Laundry
Losses**

WERKRITE

by

Wrisley

Top quality Flakes

Powder • Granules
42° Titre

92% Tallow Soap

KOLORETEX

by

Wrisley

For Wools,
Silks, All colors

LT-60

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For maximum soil
removal in first suds.

Blended Red Oil.

Low Temperature
Soap.

HYTEXAL

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Wrisley

Ready to use.

Balanced WERKRITE base
with Complex Alkalies.

Granular Form.

SILTEX FLAKES

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Wrisley

For delicate fabrics.

Medium titre, 92%

neutral white flake.

REDOTEX

by

Wrisley

Flakes • Powder • Granules
Saponified OLIEC

20° Titre Neutral Soap
95% pure Soap.

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with news for you...**

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now made by

Wrisley

You need no introduction to Wrisley or Werk.

Two grand names in soap that have always given
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Soaps are manufactured exclusively by Wrisley.

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METAL PRESS PADS
Non-Corrosive Metal Mesh

DESIGNED TO
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SAVE up to 20% on PADS

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And now... New FLANTEX Metal Flannel
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RED BANK • NEW JERSEY

SIMPLEST, Push-Button DIRECT DRIVE WASHER

The WESTERN MODEL 500 Dry Cleaning Washer DIRECT Motor Drive

Why? Simplicity of design—entirely operated from Finger Tip Push Button Controls. Less moving parts—One end V-Belt Drive—No extra belts or countershafts to wear or adjust. Only 3 places to oil. No adjusting or replacing necessary for the duplex trunnion shaft seals. Rigidly mounted anti-friction type outboard bearings assure positive alignment. Metal cylinder with greater agitation. In 30 x 36, 30 x 48, and 36 x 54 in. sizes.

The Washers Designed With The Dry Cleaner In Mind.

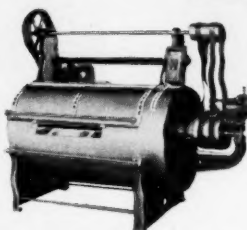


Other WESTERN Washers
and Extractors to Suit
Every Requirement!

REQUIRES LESS
FLOOR SPACE

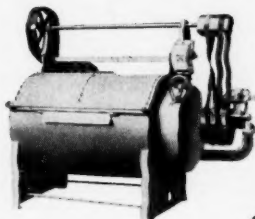
Western Model 500 Belted Motor Drive

The easiest operated, most practical "One Hand Lever Control" Machine you can buy. Ruggedly built for lasting service. In 3 sizes.



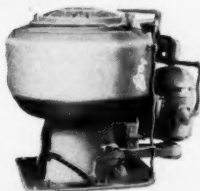
Western Model 50 Belted Motor Drive

Incorporates all the design of the Model 500 and many of the operating features. Choice of wood or metal cylinder. 3 sizes available.



Western Extractors

Solid curb. Motor driven safety equipped. 3 sizes, 20", 36", 50". Both laundry and drycleaning types.



Yes, the complete modern Western Dry Cleaning Washer and Extractor line offers any plant, anywhere, the size and type of unit needed to fit their requirements. Compare any Western-built machine for ruggedness, compare it for operating economy, compare for design and performance—then check the price. You'll be amazed and completely satisfied on what your dollar will buy when you buy Western—truly the equipment designed with the dry cleaner in mind. Get the full facts before you buy—compare Western equipment now.

Manufactured By



NORTH KANSAS CITY, MO.

420 East 10th St., Dept. SL-9 North Kansas City, Mo.
Please send details on Western equipment as checked:

Model 500:

- ☐ Direct Drive
☐ Belted Motor Drive

Model 50:

- ☐ Size _____
☐ Extractor
Size _____

Name _____

Address _____

City _____

State _____

In The West—It's WESTERN

Which

Fuel Savings

—\$59.62 fuel savings each month at Wisconsin Cleaners, Milwaukee, Wis.

More Output

—15% more output at Sun-Ray Cleaners, Chicago

Faster Heat-Up

—15% reduction in heat-up time at Utopia Cleaners & Dyers, Birmingham, Ala.

Labor Savings

—25% less labor needed at National Cleaners & Dyers, Milwaukee, Wis.

**is most important
to you**

YOU'RE likely to get a good share of them all, as these plants did, by switching to Armstrong Unit Trapping. This means installing an individual Armstrong Steam Trap on each steam-consuming unit, including each separate chamber, chest or cylinder of every machine. Only then can you achieve the machine's maximum work output.

Armstrongs keep dry steam pouring heat where it can be used most efficiently. How? By getting rid of heat insulating air and draining condensate as fast as it forms. Other advantages? An unparalleled record for low maintenance and long life. Credit this fact: the mechanisms in Armstrong Traps for your service are identical in design, workmanship and materials to those used in Armstrong Traps for power plant service at 1500 lb. pressure and 900°F! Your nearby Armstrong Representative can advise and supply you. Give him a call, today. Armstrong Machine Works, 832 Maple Street, Three Rivers, Michigan



It's Free
THIS BULLETIN TELLS YOU
the whole profitable story of
proper trapping. Ask for
Bulletin 193.



An example of Armstrong Unit Trapping on a battery of presses. These Armstrongs are No. 880's — they have the strainer built right in.

ARMSTRONG STEAM TRAPS

LIQUIDATION BARGAINS

WASHERS—MOTOR DRIVEN

- 30 x 48" American Norwood all monel one pocket
- 36 x 64" American Cascade all monel two pocket
- 42 x 36" American Cascade all monel one pocket
- 42 x 64" American Norwood all monel two pocket
- 42 x 72" American Cascade all monel two pocket
- 42 x 84" American Norwood all monel two pocket
- 42 x 84" American Cascade all monel two pocket
- 42 x 84" American Norwood all monel three pocket
- 44 x 84" Miller all stainless two pocket
- 44 x 84" ROBOT all stainless two pocket with automatic supply injection
- 42 x 96" American Cascade all monel three pocket
- 42 x 96" Ellis General all monel three pocket
- 48 x 120" American Mammoth all monel 15 pocket
- 54 x 120" Ellis all monel 12 pocket
- 50 lb. Cook open end stainless
- 25 lb. Cook Twin open end

WOOD WASHERS OF ALL SIZES AND ANY NUMBER OF POCKETS DESIRED

(Wood washers manufactured in our own plant)

FLATWORK IRONERS

- 1—8 roll Super 120"
- 1—8 roll American 120" with Hamilton Spring pad and vacuum system
- 1—8 roll American 120"
- 1—6 roll American 120"
- 1—6 roll Troy 110"
- 1—4 roll Nelson & Krueter 100"
- 1—4 roll American 100"
- 1—Double cylinder 24" Willys 120"
- 1—Double cylinder 30" Willys 120"
- 1—Double cylinder 36" Watts 120"

EXTRACTORS—MOTOR DRIVEN

- 1—54" American Notrux with two sets of containers
- 1—48" American open top with monel curb
- 1—48" Hoffman open top
- 1—48" Zephyr open top
- 1—48" Tolhorst with direct motor drive
- 1—48" Troy with direct motor drive
- 1—30" Hercules, American and Troy
- 1—26" American and Troy
- 1—20" Bock
- 1—17" Bock and Hammond

PRESSES

- 1—Prosperity Model PC four press two-girl finish unit
 - 1—Pantex four press two-girl all finish shirt unit
 - 1—Unipress four press two-girl all finish shirt unit
 - 1—Ajax four press two-girl all finish shirt unit
 - 1—Unipress three press two-girl all finish shirt unit
- Also have individual combination body and bosom, yoke, sleeves, two lay and body presses of different manufacture
- Presses in linen supply units, garment units, mushrooms and other sizes in all manufacturers makes.
- 36 x 30" Huebsch open end motor driven steam heated tumblers
 - 36 x 24" Huebsch tumblers
 - 36 x 18" Huebsch tumblers
 - American and Hoffman tumblers, as well as Huebsch tumblers gas fired
 - 48 x 120" Ellis Drier Co. motor driven tumblers

BOILERS—HIGH PRESSURE

- 1—New 40 H.P. Steamaster gas and oil fired
- 1—25 H.P. Steamaster gas fired
- 1—15 H.P. Steamaster gas fired
- 1—15 H.P. Bryan gas fired

MISCELLANEOUS EQUIPMENT

- Toledo dial type scales up to 250 lb.
- Triner 100 lb. flatwork scale
- Toledo "PRINTWEIGH" electric scale
- KEY TAG pins and arms different numbers

CLEANING EQUIPMENT

- 2—42" Hoffman Utility presses Model X
- 1—42" New Yorker Utility
- 1—19" New Yorker pants topper
- 2—45" Forse Utility (brand new)
- 1—50 Gal. Bowser still
- 1—50 Gal. Olson still
- 1—75 Gal. Olson still
- 1—2000 G.P.H. Olson filter
- 1—5000 G.P.H. Olson filter
- 1—5000 G.P.H. Bowser filter
- Cissell, Glover and Elcco puff units in different head shapes
- 1—250 Gal. cone type tank

PERCHLORETHYLENE SYNTHETIC CLEANING MACHINES

- 1—Vic 40 lb. Auto Per fully automatic
- 1—Vic 40 lb. Super Per semi-automatic
- 1—Vic 18 lb. Special Per fully automatic

CHICAGO USED & NEW LAUNDRY EQUIPMENT CO.

3128 W. LAKE ST.—NEvada 8-7763—CHICAGO 12, ILL.

New washer dumps automatically— has TIMKEN® bearings for smoother washing action

THIS new "Dynamic Dumper" open-end washer, manufactured by the Miller Laundry Machinery Company of Detroit, is completely automatic. It not only washes and rinses automatically — it *dumps* automatically, too!

To insure smoother washing action, the trunnion, pressure roller, and support rollers are mounted on Timken® tapered roller bearings. They take the constant shock loads set up by drop and squeeze action. And they permit smooth acceleration and deceleration. Vibration is minimized.

Since they are tapered, Timken roller bearings carry any combination of radial and thrust loads. Their true rolling motion and precision finish practically eliminate friction. And line contact between rollers and races provides maximum load-carrying capacity.

Timken bearings hold housings and shafts concentric, making closures more effective. Lubricant stays in—water and dirt out. Result: maintenance and lubrication costs are cut to a minimum. And under normal conditions, Timken bearings last the life of the machine in which they are used. This is because they are made of Timken fine alloy steel; they are engineered for the job; and they are precision manufactured.

To get all these advantages in machines you buy or make, insist on bearings with the trade-mark "Timken". The Timken Roller Bearing Company, Canton 6, Ohio. Canadian plant: St. Thomas, Ontario. Cable address: "TIMROSCO".



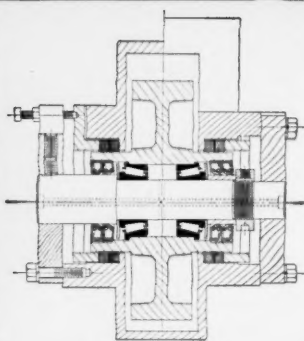
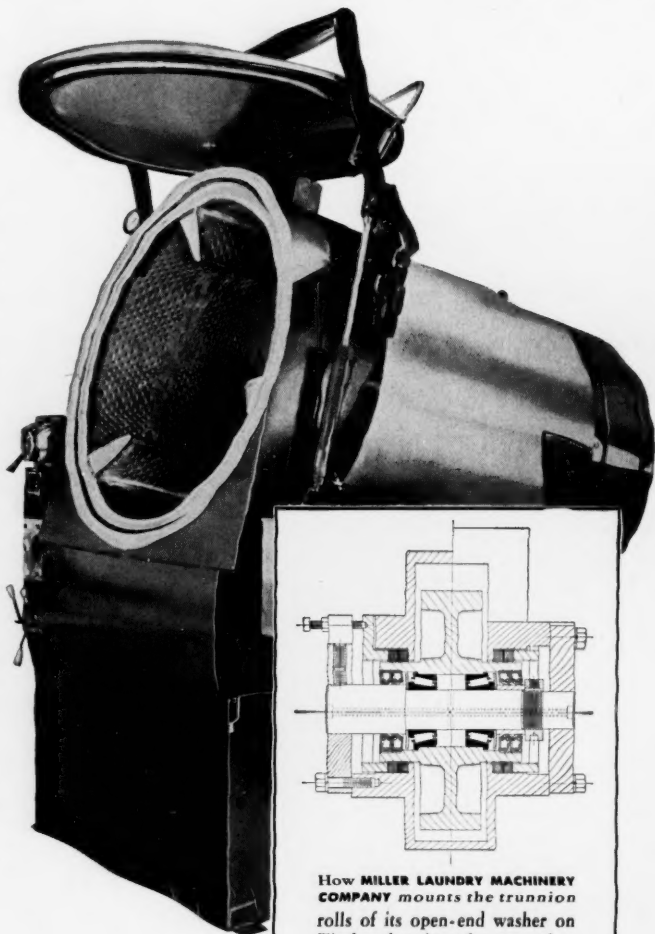
This symbol on a product means its bearings are the best.



WE MAKE OUR OWN STEEL

The special grade alloy steel which gives Timken bearings their strength and resistance to wear is made in our own steel mills.

The Timken Roller Bearing Company is the acknowledged leader in:
1. advanced design; 2. precision manufacturing; 3. rigid quality control; 4. special analysis steels.

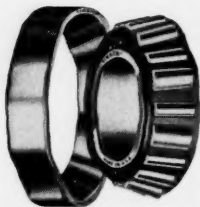


How MILLER LAUNDRY MACHINERY COMPANY mounts the trunnion rolls of its open-end washer on Timken bearings for smoother washing action, long life.

TIMKEN

TRADE-MARK REG. U.S. PAT. OFF.

TAPERED ROLLER BEARINGS



NOT JUST A BALL ○ NOT JUST A ROLLER □ THE TIMKEN TAPERED ROLLER ▷ BEARING TAKES RADIAL ○ AND THRUST → LOADS OR ANY COMBINATION ✨



AT LAST!

A Perfected
Detergent for the **STRONG SOAP
SYSTEM (S. S. S.)** or **CHARGED
SYSTEM** of Dry Cleaning ...

REE-TEX

It Works with **MAGNESOL, D-C FILTROL,
HYFLO SUPERCCEL, SPEEDPLUS** and other Filter
Powders in Petroleum or Chlorinated Solvents

*'We Can Supply a Simple Test Kit
for Determining Strength of the Detergent Solution*

REE-TEX Takes the "Bugs" out of the S. S. S. with Unheard-of Reduction in Spot-
ting and Wetcleaning.

REE-TEX will get Business for You and Lower Your Cost.

Write for details, no obligation.

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Oldest Exclusive Manufacturer of Dry Cleaning Chemical Products in the United States

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CHOOSE "CHICAGO" EQUIPMENT FOR DEPENDABLE—ECONOMICAL OPERATION

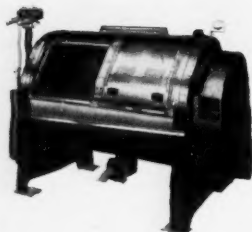
ESPECIALLY DESIGNED FOR QUICK SERVICE AND INSTITUTIONAL LAUNDRIES



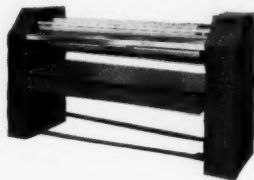
END LOADING WASHERS—Built in 3 sizes; 30" x 15" 25 lb. capacity; 36" x 18" 50 lb. capacity; 36" x 22" 60 lb. capacity. Stainless steel construction. Manual or full cycle automatic controls, single or two speed.



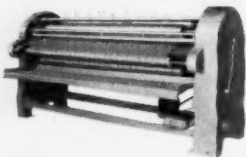
EXTRACTORS—Built in 3 sizes, 20", 26" and 30". 20" size available with standard or self balancing basket. Steel or stainless steel casing, stainless steel baskets, safety cover interlock.



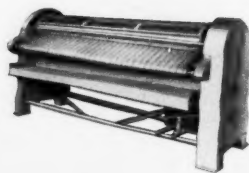
CYLINDER WASHERS—Built in 11 sizes from 24" x 24" to 42" x 84", 25 lb. to 350 lb. capacity. Stainless steel construction, quiet V belt drives, single or two speed, manual or automatic controls.



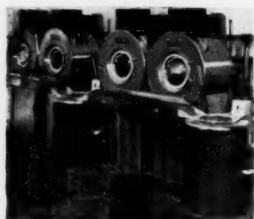
MODEL G-9 GAS IRONER—Built in 2 sizes 56" or 75" long. With thermostatic heat control and Basoid valve, modern streamlined design. Also available electric heated. For small production requirements.



MODEL G16 GAS IRONER—Built with rolls 60", 85", 100", or 110" long, 16" diameter heated roll, thermostatic heat control, Basoid valve, front or rear return type. Also available with 24" roll.



MODEL S16 STEAM IRONER—Built with rolls 50", 75", 85", 100", or 110" long, 16" diameter heated roll, with front return ribbons. S16-110" produces approx. 90 lbs. per hour of family work.



Typical Quick Service Installation



Typical Institutional Installation

CHICAGO DRYER COMPANY

2212 N. PULASKI ROAD

CHICAGO 39, ILLINOIS

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MARKING SYSTEMS

*The World's Most Versatile—
Most Flexible!*

- Fastest marking-in
- Most accurate marking-in
- Least opportunity for error
- Best to eliminate garment loss
- Smoothest unit flow of work through your plant
- Most efficient and economical
- Fastest accurate assembly
- Most prompt delivery of garments to your customers
- Most economical

Checkers' Best Marking Systems, including
tags, now available for shipment

FOR MORE INFORMATION AND NAME
OF ONE OR MORE JOBBERS IN YOUR
TERRITORY, WRITE NOW TO:

WAVERLY
SPECIALTY CO.
WAVERLY HALL, GEORGIA

Please send more information on marking system
more information about jobbers in my territory

NAME _____ ADDRESS _____
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for a complete guide
to storage vault instal-
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Free!

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series includes:

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midity; layout, identification,
records; inspection — receipt
and delivery; how to figure
costs and profits; storage sell-
ing and promotion.

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Storage Vault?*

Fur storage and fur cleaning are only two of the *big profit potentials* in a vault installation. You can get more business from your present customers . . . and attract new customers . . . by offering a complete fur service in your own plant! Get your share of the profits waiting for you in fur repair . . . remodeling . . . merchandising. You can build up a good volume in any or all of these potential markets . . . with the help of

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BY DAVID G. KAPLAN

Fur Editor, The NATIONAL CLEANER & DYER

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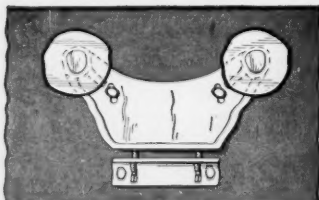
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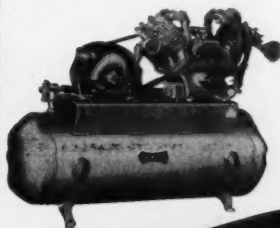
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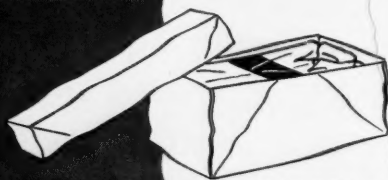
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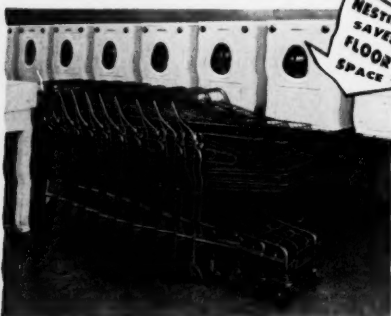
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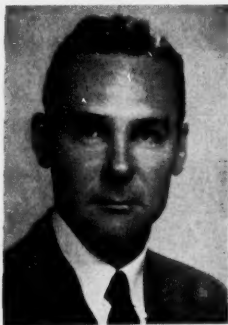
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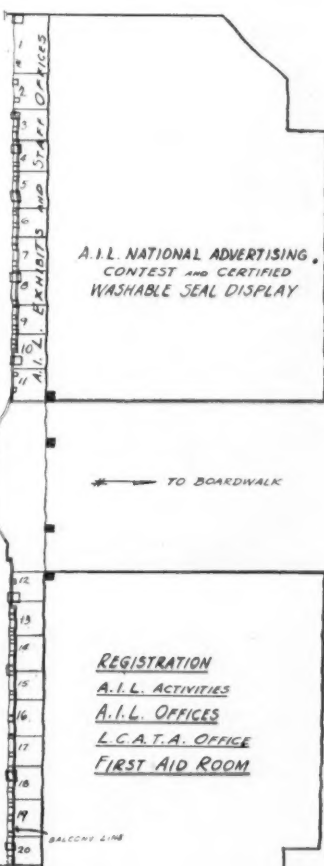
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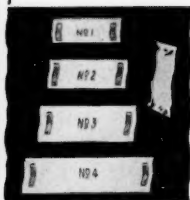


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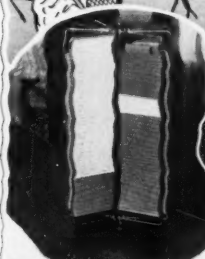
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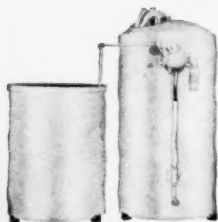
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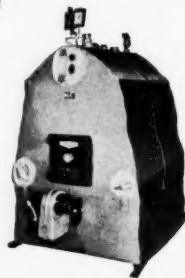
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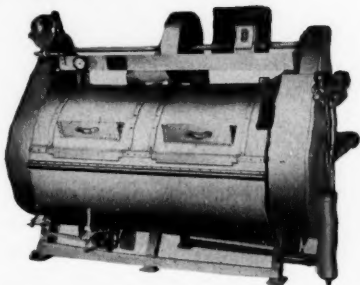
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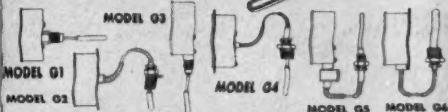
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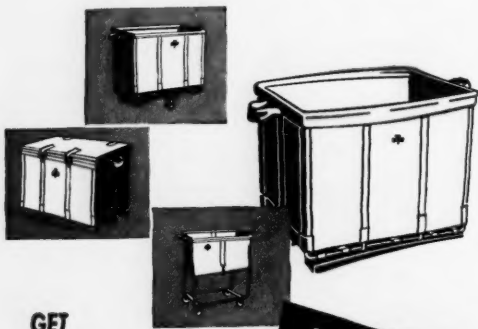
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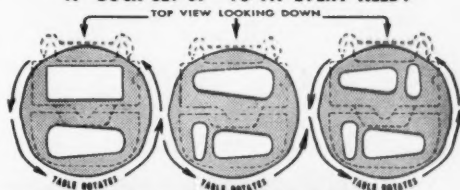
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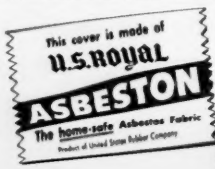
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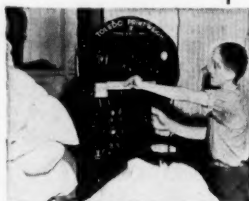


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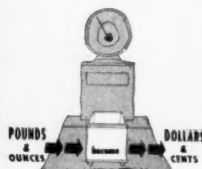
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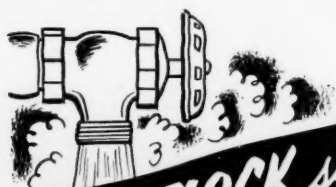
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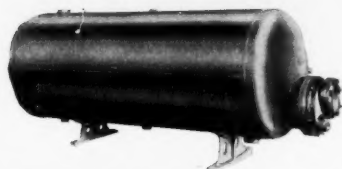
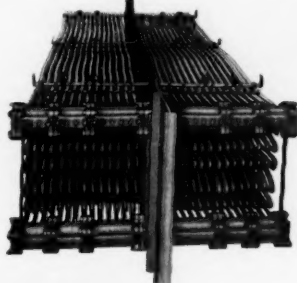
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water you use!



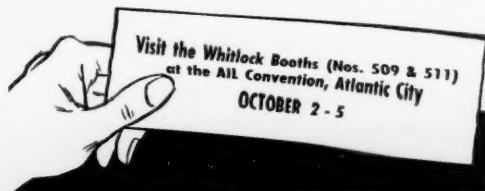
WHITLOCK STORAGE HEATERS insure ample hot water at all times . . . heated by exhaust steam, hot drips, live steam, or any combination of these.

It will pay you to consult us about water heating equipment, feedwater heaters, boiler feed systems, fuel oil heaters, solvent vacuum stills. See your local Whitlock engineer or write for Bulletins 40A and 51.

THE WHITLOCK MANUFACTURING COMPANY

90 SOUTH STREET, ELWOOD, HARTFORD 10, CONN.

New York • Philadelphia • Boston • Chicago • Detroit • Richmond



INCREASE your
production with
efficient-

CHELSEA INDUSTRIAL FANS

- A TYPE
FOR EVERY
APPLICATION!



TYPE MC MANCOOLER
BELT DRIVEN



TYPE PLF
POWER LINE EXHAUST FAN



TYPE BB
ALL PURPOSE EXHAUST FAN



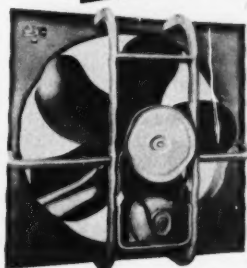
TYPE PND
PENTHOUSE UNIT



TYPE PDX
POWER LINE DUCT BOOSTER



TYPE PDU
POWER LINE AIR BLASTER



CHELSEA TYPE IND EXHAUST FAN
For factories, mills, theatres, schools,
hotels and churches. Features belt drive
with ball bearing motor and fan shaft.
Sizes from 24" to 72".



STEP-UP OUTPUT

and quality of
workmanship, re-
duce industrial ac-
cidents and employee fatigue
with proper ventilating and
cooling equipment. **CHELSEA**
Fans remove excessive heat,
fumes, dirt, dust and grit, also
dead stale air. 30 models, in
over 200 sizes, are available,
and each fan or blower is es-
pecially engineered and tested
for its recommended applica-
tions. All ratings are certified
by P.F.M.A. test methods to
insure proper performance.
Check on your ventilating re-
quirements, now.

NEW CATALOG No. 400
now available!

Complete data and specifications on
fans and blowers for every industrial
and commercial application—address
requests to Dept. Y-4



PROPER VENTILATION
IS AN INVESTMENT!
Look for this Symbol of Quality . . .
Look for this Seal of Certified Ratings



CHELSEA FAN & BLOWER CO., Inc.
PLAINFIELD, NEW JERSEY

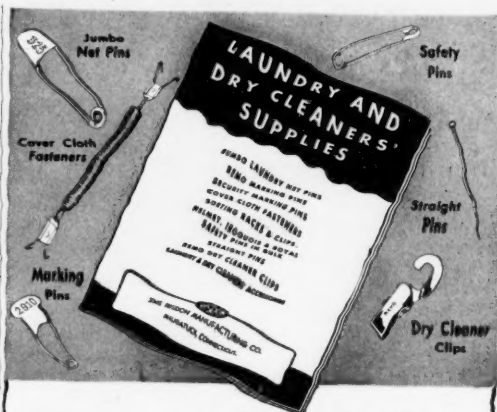


THERE ARE SEVERAL WAYS TO COVER THE HOLE IN YOUR FLOOR

You could use man-hole covers, temporarily, or Cleve-O-Cement for a permanent job. Cleve-O-Cement is easy to apply. Using ordinary tools, any handy man can patch the floor in a jiffy. Cleve-O-Cement dries flint hard overnight—28 times harder than ordinary cement. Waterproof, slip-proof, withstands cold, moisture, steam and fruit and dairy acids. Used by meat and food packing plants, dairies, laundries, bottling plants.

Send for illustrated bulletin.

THE MIDLAND PAINT & VARNISH CO.
9123 RENO AVE. • CLEVELAND 5, OHIO



Ask your dealer for your copy of this NEW

**RISDON
REMO
CATALOG**

Have the complete Risdon-Remo line at your fingertips. Pictures, specifications and prices make the line easy to order.

And don't forget the three star features of Risdon-Remo service.
★ Immediate Shipments
★ Complete Dealer Coverage
★ A Pin for Every Need
THE RISDON MANUFACTURING CO.

RISDON
HAUGATUCK, CONN.

RI-2

QUIK-LOK AUTOMATIC

SHIRT BOX



**READY
IN A ZIP!**

**HERE! NOW!
THE REVOLUTION-
ARY NEW SIZE FOR
THE 14 INCH FOLD.**

A complete range for every shirt bundle. At last, a non-crushable box for less cost. A phone call or card to us will send our representative on his way to prove how it is possible to deliver your quality laundered shirts in the same condition as they left your plant. Also made in over 24 sizes to suit your individual shirt fold.

- SAVE SPACE
- JUST FLIP TO OPEN
- RIGID STRENGTH PROTECTS CONTENTS

See our booth No. 246 at the A.I.L. Convention.

CENTURY
paper products

333 N. Francisco Ave., Chicago 12, Ill. • Nevada 2-3151

**ORDER
TODAY
FROM YOUR
SUPPLY
HOUSE**

**BETTER WORK • BETTER PROFITS
with BETTER PRODUCTS**

**STOP COSTLY LEAKS
with SPEEDY PIPE SEALS!**

Sold as a handy kit, sizes 1/2" to 2", plus Clamp.

First aid for leaks in steam, gas, air or water lines. A size for every pipe. Mends instantly! Easy to use! No plumber's bill—No costly shutdowns. Users stock Speedy Seals for emergencies... for leak stoppage in seconds.

ORDER A LOW COST SET TODAY!

QUICK IDENTIFICATION With the New, Brilliant-Colored



**PERMA-NET MARKERS
EIGHT EASY-TO-READ COLORS**

Designed for easy handling. Speare Markers spin on pin, will not wear out or tear out! Colors Black, Blue, Brown, Green, Orange, Red, White and Yellow for every classification. Get quick low-cost identification! Order a supply today!

ORDER FROM YOUR LOCAL SUPPLY HOUSE

BETTER FINISH • ECONOMY • SPEED

New LUB-N-WAX

- New Lub-N-Wax resists caking! Lubricates at high ironer speeds. Ideal for "spot" waxing without stopping ironer.
- Adds life to aprons and covers. Does not carbonize or build up scale. The economical, perfect, easy-to-use wax!

THE SPEARE CO.

2235 SOUTH FORD AVENUE

CHICAGO, ILLINOIS



in 5 and 10 lb. Cartons 100 lb. Drums

TREMENDOUS SAVINGS in HANDLING COSTS OF IDENTIFICATION AND ASSEMBLY by One-Pass Marking and Stapling with the new **DUAL DUTY TAG-O-LECTRIC** FOR DRYCLEANERS

← Makes, marks and attaches tags as fast as operator can handle garments. Saves 8,000 handling motions on each 1,000 garments.

TAG-O-MATIC FOR DRYCLEANERS Marks, cuts, ejects and stacks tags in split-second operations. Any numbers, letters or code.

PIBON-ITE MARKING MACHINE

Prints thru a ribbon and is always ready. Ideal for marking shirts. Washout ribbon for marking at wet assembly.

LOT-SYSTEM TAG-O-LECTRIC FOR LAUNDRIES

Fastest, simplest, most economical identification for shirts, bachelor bundles and family work.

Use Genuine TAG-O-LECTRIC RIBBONS

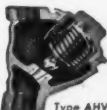
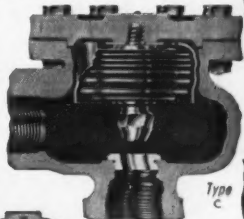
10 colors, color stripes. Use "Ribbon-ite" Marking Ribbons and Tag-O-lectric Staples. All required for guaranteed results.

246 WALTON ST., SYRACUSE 2, N. Y.

NICHOLSON TRAPS

STOP TEMPERATURE FLUCTUATION LOSS

The unusual effectiveness of Nicholson steam traps in discharging air as well as condensate was recently employed by a large Western user of steam to eliminate the costly temperature fluctuation of air-bound presses. Nicholson's ability to effect higher, more even temperatures is enabling many operators to save substantially in heat-up time of ironers, presses, dryers, and water heaters. 5 types; for process, heat, power; sizes 1/4" to 2"; pressures to 250 lbs.



BULLETIN 152
185 Oregon St.,
Wilkes-Barre, Pa.

W. H. NICHOLSON & CO.
TRAPS · VALVES · FLOATS

PULVOAX insures SMOOTHER ironing!



Shakes on easily and evenly because it's finely powdered! No waste! No caking! No carbonizing! No build-up scale! No need to stop ironer for spot waxing!

Meets all waxing requirements at high or low ironer speeds. A compound of hard, imported vegetable waxes!

Gives smooth, uniform finish! Insures longer wear for aprons and cover cloths! For greater efficiency . . . for economy, try the original PULVOAX!

Order from your jobber, or direct.

1 lb. - 5 lb. - 25 lb. - 100 lb. pkgs.
80¢ lb. 75¢ lb. 70¢ lb. 65¢ lb.

LEWIS NATIONAL Corp.
29 Sleeper Street, Boston 10, Mass.
Laundry and Dry Cleaning Machinery and Supplies

STAIZ the Aristocrat

THE FAMOUS, PATENTED COLLAR SUPPORT USED BY MORE QUALITY LAUNDRIES THAN EVER BEFORE!

STAIZ, with the shiny-metal Tab, gives starched shirt collars real protection . . . adds that "extra" Eye-Appeal.

STAIZ is your hallmark of quality and excellence . . . yet it costs no more!

TRY IT! WRITE FOR SAMPLES!

TIME SAVERS
83-99 Walnut St. • Montclair, N. J.

GROSS STAR

Aluminum GRID PLATES
Hold Heat Better



Only GROSS STAR
is 12-ways better.
Be sure your press
plate has ALL 12
advantages.

up to 46" \$14.85
mushroom - 11.00
over 46" - 19.25
from your jobber

L. BEHRSTOCK CO.
1708 S. State St. • Chicago 16, Ill.

**IF IT'S COST REDUCTION AND INCREASED PROFIT—
YOU ARE LOOKING FOR—
WHY NOT**

**Investigate BREADY HEAT RECLAMATION
and the BREADY ENGINEERING
that Goes With It.**

**Cuts Hot Water Heating Costs in Half
—Reduces Boiler Load and Fuel Costs
in Proportion**



BREADY ENGINEERING CORPORATION
3103 N. 27th St., Milwaukee 11, Wisconsin

in just 17 seconds
ShirTainer
does everything!

- Saves material—time!
- Easy to use... prevents bottleneck in folding operation!
- Builds customer good will!




PROTECTS Collar
Shirt Body
Shirt Front
Entire Shape

See Loroco's Sportainer, too!

For samples write—**LOROCO INDUSTRIES, INC.**
Division 3, Reading, Cincinnati 15, Ohio

TRULY REMARKABLE!



Laundries and cleaners all over the world are now using INDEL-O-MARK, the truly remarkable indelible fountain pen. INDEL-O-MARK eliminates the inkwell and the ink bottle. To fill, simply insert a sealed cartridge—it fills and feeds automatically. YOUR HANDS NEED NEVER TOUCH INK! Marks swiftly and safely on all textiles and tags with GUARANTEED indelible ink. In every way INDEL-O-MARK gives safe, dependable performance.

\$10.00
INCLUDING
3 CARTRIDGES

INDEL-O-MARK
CARTRIDGE FEED
INDELIBLE FOUNTAIN PEN

MARK-O CORP.
17 WEST 60th ST.
NEW YORK 23, N. Y.

QUICK SERVICE LAUNDRIES UPGRADE

**AND MAKE
MORE MONEY \$\$**

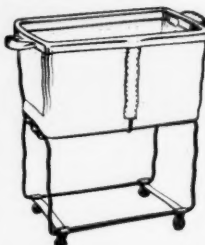
The First Item You NEED

BASKETS

Send for Catalog and Prices

W. J. McELMOYL CO.

63 Church Street Groveville, N. J.



**SAVES
UP TO \$500
A YEAR
PER TRUCK!**



**THIS LITTLE DEVICE TELLS YOU
BUSY TIME—IDLE TIME—OVER-
TIME ALL DAY LONG!**

The Servis Recorder shows every move your motor truck makes—when working and when standing, and how long—as shown on its chart (at left). Thus your motor truck writes its own story daily. You SEE all delays at a glance—and correct 'em! Save up to \$500 a year per truck. Over 100,000 trucks now equipped. Money-saving booklet free. The Servis Recorder Co., 1375 Euclid Avenue, Cleveland, Ohio.

The Servis Recorder
Keeps Motor Trucks Busy

PUT IT on the Record!

The simplest, most convenient way of keeping a list of your customers, their addresses, the orders they send in, the amount they pay...

THE NO. 39 CLEANERS & DYERS RECORD FORM

Provides space for recording this necessary information with minimum effort. Whether your plant is large or small, whether you prefer a bound volume or loose-leaf type, your needs will be answered by one of these three editions:

No. 39 SENIOR RECORD BOOK—400 Pages
(10,000 entries). Durable bound in heavy duck with leather covers. \$ 5.00

No. 39 JUNIOR RECORD BOOK—48 Pages
(1,200 entries). Board covers, marbled binding 1.00

LOOSE LEAF BINDER 5.00

LOOSE LEAF SHEETS: 100 2.50

ALL PRICES 250 5.00

PREPAID 500 9.00

1000 15.00

Send orders with remittance to:
NATIONAL CLEANER & DYER

304 East 45th Street, New York 17, N. Y.



Camelforms

CUT COSTS ON LAUNDRY PACKAGING

For more than fifteen years leading laundries have found CAMELFORMS the **• Most economical • Most practical • Quickest set-up method** for laundry packaging. Your cost will be about one-half of what it is with any other method of packaging. Write for samples and prices. WRITE DEPT. A-9

Campbell

BOX AND TAG COMPANY
Main and Guide Streets, South Bend 23, Ind.

MARKING INK

that is
SAFE!

FOR USE ON DIAPERS
HOSPITAL LINENS
GAUZES AND GENERAL
LAUNDRY WORK

- Indelible. Contains no aniline or other harmful chemicals.
- For use with rubber or metal stamps, hand or machine applications.
- Available in several colors

\$5.00 PER PINT.

JOHN P. NISSEN, JR., CO., Mfrs. Glenside, Pa.



BOCK

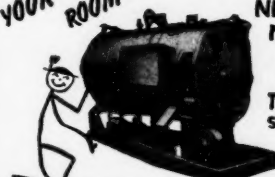
EXTRACTORS

The most efficient time and money saving Extractor on the market. Made in 15", 17" and 20" sizes. Send Us Your Inquiry.

BOCK

LAUNDRY MACHINE CO.
TOLEDO, OHIO

JUST SET IT ON YOUR BOILER ROOM FLOOR!



AMESTEAM GENERATOR

NEEDS NO FOUNDATIONS
NO BRICKWORK
NO LARGE STACK

You Supply Fuel Tank, Gas Vent and Service Connections . . . we supply the rest.

AMES IRON WORKS

10 to 500 h.p.
15" to 200" w.p.
OIL or GAS

BOX 0-9
INCORPORATED
OSWEGO, N. Y.

PRODUCTION "MIRACLES" with STRIKE'S GIANT HYDRAULIC EXTRACTOR

Extracting 240 pounds in less than seven minutes IS a production miracle compared with old fashioned standards! But in Strike's Giant Extractor, you find a price "miracle", too.

Yes . . . you pay thousands of dollars LESS for Strike's Giant, yet you sacrifice NOT ONE CENT in quality and performance. Don't you agree that THAT'S worth looking into?

For further information write

★ **STRIKE'S** ★
LAUNDRY MACHINERY
221 No. Westmoreland, Los Angeles 4, California

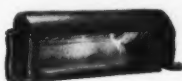


TUMBOLITES

Out
COSTLY CLAIMS

LIGHT THOSE DARK CORNERS IN YOUR TUMBLERS TO: . . .

- Eliminate cost of claims
- Promote customers' satisfaction
- Eliminate time lost in adjusting claims
- Increase operator efficiency



\$8.75 complete
COMPLETE SATISFACTION
GUARANTEED — Full purchase price refunded at any time within thirty days if not fully satisfied.

EFFICIENT AND ECONOMICAL

- Compact unit in rugged housing with rounded contours
- One electrical connection, 110V AC-DC
- Three self-tapping screws complete installation in only a few minutes
- Built-in switch turns light off when door is closed
- Better light at lower cost than obtained with conventional fixtures

Prove to Yourself That It Pays to Use TUMBOLITES by Ordering from Your Jobber Today!

THE DONNELL COMPANY • P.O. Box 84C, ST. JOSEPH, MICH

DIRECTORY SECTIONS

of the Guidebook for the Laundry Industry

CLASSIFIED DIRECTORY . . Page 203

For ready reference to any or all manufacturers of laundry products turn to the alphabetical listing of supplies and equipment. In most instances products are listed under the noun—that is, "Starch, Corn" rather than "Corn Starch." This arrangement is followed consistently except where common usage has joined the two words; for instance, "Puff Irons" rather than "Irons, Puff." Although listings are planned to yield the desired heading immediately, the directory is thoroughly cross-indexed. Display advertisers are listed in bold face type. For further information and page number of their ads see Index to Advertisers opposite inside back cover.

TRADE NAMES Page 261

This alphabetical list will be of continuing value to the laundryowner who wishes to identify the manufacturers of the industry's trade name products.

MANUFACTURERS Page 281

Listed alphabetically here are laundry equipment and supply manufacturers together with their locations. Having found a firm name in either of the directories described above, use this list to determine where to address your correspondence.

LOCAL BUYERS' GUIDE . . . Page 292

This geographical breakdown provides complete buying information. Here you will find the jobbers or the branch offices serving your community. On the basis of the information we have received, firm names followed by (E) are jobbers for equipment, firm names followed by (S) are jobbers for supplies, and firm names followed by (E & S) are jobbers for both equipment and supplies. Bold face type denotes display advertisers. Index to Advertisers opposite inside back cover will provide the page number where you can obtain a complete description of their products.

Classified Directory

manufacturers of equipment and supplies used in the laundry industry . . .

ABSORBERS, ODOR

Carbide & Carbon Chemicals Corp., Unit of
Union Carbide & Carbon Corp.
Davies-Young Soap Co.
Keystone Chemical Co.
Schutte & Koerting Co.

ABSORBERS, VIBRATION

American Brass Co., American Metal
Hose Branch
Eclipse-Pioneer Div., Bendix Aviation Corp.
Flexonics Corp.
Johns-Manville
Johnson Metal Hose, Inc.
M B Mfg. Co., Inc.
Raybestos-Manhattan, Inc.
Salomon, L. A. & Bro.
U. S. Rubber Co.

ACCOUNTING MACHINES AND SYSTEMS

Burroughs Adding Machine Co.
National Cash Register Co.
Recordak Corp.

ACETATE, ALUMINUM

See: Aluminum Acetate

ACETIC ACID

DuPont de Nemours, E. I. & Co., Inc.
General Chemical Div., Allied Chemical & Dye
Corp.
Hochik Bleich Co.
Mallinckrodt Chemical Works

ACETONE

Carbide & Carbon Chemicals Corp., Unit of
Union Carbide & Carbon Corp.
DuPont de Nemours, E. I. & Co., Inc.
Mallinckrodt Chemical Works

ACID-RESISTING BUCKETS

See: Buckets and Pails, Acid-Resisting

ACID-RESISTING HARD RUBBER FITTINGS

See: Fittings, Acid-Resisting, Hard Rubber

ACID-RESISTING PAINT

See: Paint

ACID-RESISTING PIPE

See: Pipe, Acid-Resisting, Alloy

ACID-RESISTING TANKS

See: Tanks, Acid-Resisting

ACIDS

See: Acetic Acid, Oxalic Acid

ACTIVATED CARBON

Carbide & Carbon Chemicals Corp., Unit of
Union Carbide & Carbon Corp.
Darco Dept. (Atlas Powder Co.)



BLUE LABEL DARCO DC

Activated Carbon
continuously adsorbs

Grease—color impurities—fatty acids
—odors—and other impurities from
your dry cleaning solvent.

DARCO DEPARTMENT

ATLAS POWDER COMPANY

Darco General Sales Offices

60 E. 42nd St., New York 17, N. Y.

DuPont de Nemours, E. I. & Co., Inc.

Elgin Softener Corp.

Inflico, Inc.

Parautit Co.

Refinette Corp.

Salomon, L. A. & Bro.

Stover Water Softener Co.

ADDING MACHINES

Allen, R. C., Business Machines, Inc.
Burroughs Adding Machine Co.
National Cash Register Co.

ADDRESSING EQUIPMENT

Addressograph-Multigraph Corp.

ADSORBENTS

See: Activated Carbon, Filter Powder

ADVERTISING POSTERS

See: Posters

AFTERCOOLERS

Davis Engineering Corp.
Ingersoll-Rand Co.
Johnson Corp.
Murray, D. J., Mfg. Co.
Patterson-Kelley Co., Inc.
Schutte & Koerting Co.
Whitlock Mfg. Co.
Worthington Pump & Machinery Corp.
Young Radiator Co.

AIR CLEANERS

Drico Industrial Corp.
Mine Safety Appliances Co.
Wright-Austin Co.

AIR COMPRESSORS

See: Compressors, Air

AIR CONDITIONERS

Brunner Mfg. Co.



Self Contained

AIR CONDITIONERS

4 sizes: 3-5-7½-10 HP.

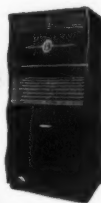
Remote Installation Types

up to 75 HP.

Write for Catalogs

BRUNNER MANUFACTURING CO.

Utica 1, New York, U. S. A.



Carrier Corp.
Chrysler Corp., Airtemp Div.
Charge Fan Co.
Cuno Engineering Corp.

Fairbanks Morse & Co.
Frigidaire Div., General Motors Corp.
General Electric Co.
Haertel, Walter, Co.
Kelvinator Div., Nash-Kelvinator Corp.
Minneapolis-Honeywell Regulator Co., Industrial
Div.
Murray, D. J., Mfg. Co.
Petroleum Heat & Power Co.
Reliable Fur Storage Equipment Co., Div.
Reliable Machine Works, Inc.
Trane Co.
Young Radiator Co.
Worthington Pump & Machinery Corp.

AIR COOLERS

See: Coolers, Oil, Water, Air

AIR ELIMINATORS

Armstrong Machine Works
Gorton Heating Corp.
Sarco Co., Inc.
Wright-Austin Co.

AIR FILTERS

Bonn, P. H., Co.
Drico Industrial Corp.
Haertel, Walter, Co.
Kays & MacDonald, Inc.
Master Products Co.
Mine Safety Appliances Co.
Minneapolis-Honeywell Regulator Co., Industrial
Div.
Strong, Carlisle & Hammond Co.
Taro Heaters, Inc.
Westinghouse Air Brake Co., Industrial
Products Div.

AIR GAUGES

See: Gauges, Air

AIR HEATERS

See: Heaters, Air

AIR METERS

See: Meters, Air

AIR SEPARATORS

De Vilbiss Co.
Johnson Corp.
Kays & MacDonald, Inc.
Keckley, O. C., Co.
Leavitt Machine Co.
Strong, Carlisle & Hammond Co.
Wright-Austin Co.

AIR TANKS

See: Tanks, Air

AIR TRAPS

Anderson, V. D., Co.
Armstrong Machine Works
Kays & MacDonald, Inc.
Keckley, O. C., Co.
Sarco Co., Inc.
Squires, C. E., Co.
Sterling Engineering & Mfg. Corp. (Templeton
Mfg. Co.)
Strong, Carlisle & Hammond Co.
Wright-Austin Co.

BOLD TYPE LISTINGS

Indicates display advertisers. For more information about their products,
see the index of advertisers opposite the inside back cover for page numbers.

AIR VACUUM SYSTEMS, PRESSES

See: Vacuum Systems, Presses

ALARMS, HIGH AND LOW WATER

Bailey Meter Co.
Campbell, J. A. Co.
Combustion Control Corp.
Cutler-Hammer, Inc.
Hapman-Dutton Co., Dutton Boiler Div.
Johnson Corp.
Kisco Boiler & Engineering Co.
McDonnell & Miller, Inc.
Northern Equipment Div., Continental Foundry & Machine, Inc.
Schaub, Fred H., Engineering Co., Inc.
Sterling, Inc.
Wright-Austin Co.
Yarnall-Waring Co.

ALARMS, SIGNAL

B & G Machinery Co.
Bidwell Mfrs.
Campbell, J. A. Co.
Kuehbach Div., American Laundry Machinery Co.
Leslie Co.
McDonnell & Miller, Inc.
Norman Control Co.
Photowitch, Inc.
Rosenthal Mfg. Co.
Sterling, Inc.
U. S. Gauge Div., American Machine & Metals, Inc.
Wright-Austin Co.

ALCOHOL

Carbide & Carbon Chemicals Corp., Unit of
Union Carbide & Carbon Corp.
DuPont de Nemours, E. I., & Co., Inc.

ALKALI COMPOUNDS, SPECIAL

Carbide & Carbon Chemicals Corp., Unit of
Union Carbide & Carbon Corp.
Carlton Chemical Co., Inc.
Carman & Co., Inc.
Columbus-Southern Chemical Corp.
Cowles Chemical Co.

Cowles LAUNDRY PRODUCTS

THE QUALITY
LINE OF

**WASHROOM
DETERGENTS**

"Good Washing
Wins Good Will"

BUY FROM YOUR
COWLES DISTRIBUTOR

**ESCOLITE
NEW ESCOLLOID**

**ESCOL 77
ESCOFOS
DRISUDZ
DESOL
SOILSORB
ESCOMO BLUE
CHLORESOL**

COWLES CHEMICAL COMPANY
CLEVELAND 3, OHIO

Diamond Alkali Co.
Dow Chemical Co.
Drew, E. F., & Co., Inc.
DuPont de Nemours, E. I., & Co., Inc.
General Chemical Div., Allied Chemical & Dye Corp.
Kelite Products, Inc.
Keim Laboratories
Klingman Bros., Inc.
Kohnstamm, H., & Co., Inc.
Lewis National Corp.
National Milling & Chemical Co.
North Coast Chemical & Soap Works
Pennsylvania Salt Mfg. Co.
Philadelphia Quartz Co.
Riverside Chemical Co., Inc.
Robins, G. S., & Co.
Solvay Process Div., Allied Chemical & Dye Corp.
Spence Co.
Stadham Co., Inc.
Stauffer Chemical Co.
Stearns, George, Chemical & Mfg. Co.
Swift & Co.
Thompson-Hayward Chemical Co.
Turco Products, Inc.
Van Chemical Co.
Washline National Sands, Inc.
Wyandotte Chemicals Corp.

ALKALI-RESISTING PAINT

See: Paint

ALUMINUM ACETATE

DuPont de Nemours, E. I., & Co., Inc.
Mallinckrodt Chemical Works
Wolf, Jacques, & Co.

ALUMINUM CASTINGS

See: Castings, Brass, Bronze and Aluminum

ALUMINUM PAINT

See: Paint

ALUMINUM PIN CARRIERS

See: Pin Carriers

AMMONIA

Armour & Co., Industrial Soap Div.
Bov Chemical Co.
DuPont de Nemours, E. I., & Co., Inc.
General Chemical Div., Allied Chemical & Dye Corp.
Hachik Blomch Co.
Hood Chemical Co., Inc., Crescent Div.
Mallinckrodt Chemical Works
North Coast Chemical & Soap Works
Pennsylvania Salt Mfg. Co.
Thoro Products Co.

AMMONIUM ACID FLUORIDE

See: Sour

ANGLE VALVES

See: Valves, Angle

ANILINE DYES

See: Dyes

ANTISEPTICS

Alosse Chemical Co.
Carman & Co., Inc.
Davis Emergency Equipment Co., Inc.
Drew, E. F., & Co., Inc.
DuPont de Nemours, E. I., & Co., Inc.
Fairfield Laboratories
General Dye-Stuff Corp.
Germaudian, Inc.
Huntington Laboratories, Inc.
Lincoln Research, Inc.
Mallinckrodt Chemical Works
Perp-Aseptie Corp.
Sterwin Chemicals, Inc.

APRON LACERS, LAUNDRY

See: Lacers, Laundry Apron

APRONLESS IRONERS

See: Ironers, Apronless

APRONS, ALLIGATOR-LACED

Benwall Mfg. Co.
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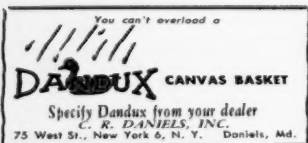
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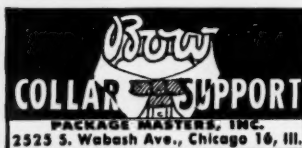
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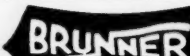
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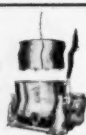
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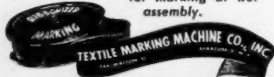
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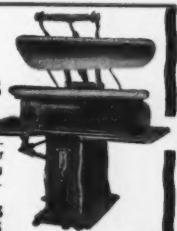
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Robins, G. S., & Co.
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Denning Co.
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Gardner-Denver Co.
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Carver Pump Co.
Chicago Pump Co.
Dean Hill Pump Co.
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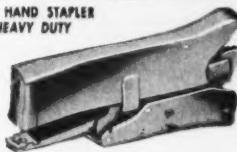
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Squires, C. E., Co.
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Kipfel Mfg. Co.
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Crane Co.
Crosby Steam Gage & Valve Co.
Kunkle Valve Co.
Lunkenheimer Co.
Manning, Maxwell & Moore, Inc.
Trane Co.
Westinghouse Air Brake Co., Industrial Products Div.

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Huebsch Div., American Laundry Machinery Co.
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See: Cylinders, Metal

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See: Cylinders, Wood

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See: Valves, Washer Dump

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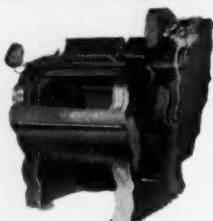
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See: Valves, Washwheel

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Kenney Softener & Filter Co.
Kisco Boiler & Engineering Co.
Layne & Blower, Inc.
Oshkosh Filter & Softener Co.
Permutit Co.
Rathbun Co.

Refinite Corp.

Worthington Pump & Machinery Corp.
Zero Water Softener Mfg. Co.

WATER SOLVENT STILLS

See: Stills

WATER STORAGE HEATERS

See: Heaters, Water Storage

WATER SUPPLY PUMPS

See: Pumps, Water Supply

WATER SYSTEMS, HOT

See: Hot Water Systems

WATER TESTERS

See: Testers, Water

WATER TREATMENT, BOILER

See: Boiler Water Treatment

WATER TREATMENT CONTROL

TEST EQUIPMENT
See: Water Analysis Equipment

WATER TREATMENT EQUIPMENT

American Water Softener Co.
Belco Industrial Equipment Div.
Bruner Corp.
Cochrane Corp.
Culligan Zeolite Co.
Elgin Softener Corp.
Graver Tank & Mfg. Co.
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Armour & Co., Industrial Soap Div.
Carman & Co., Inc.
Concord Chemical Co.

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Wrinkle-Free
Ironing

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Continental Car-Na-Var Corp.
Davies-Young Soap Co.
DuPont de Nemours, E. I. & Co., Inc.
Franklin Research Co.
Hood Chemical Co., Crescent Div.
Horn, A. C. Co., Inc.
Huntington Laboratories, Inc.
Itnis, Spender & Co.
Johnson, Chemical Industries, Inc.
Kelite Products, Inc.
Keystone Chemical Co.
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Nasco Chemical Corp.
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Roberts-Mosher Co., Inc.
Spears Co.
Stadham Co., Inc.
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WAX EMULSIONS

See: Emulsions, Wax

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WAX, JAPAN

Concord Chemical Co.
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See: Presses, Weaving Apparel

WEAVING

See: Reweaving

WETCLEANING BRUSHES

See: Brushes

WETCLEANING DETERGENTS, SPECIAL

See: Detergents, Special Wetcleaning

WETCLEANING SOAPS

See: Soaps, Wetcleaning

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WETWASH PAPER

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See: Starch, Wheat

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See: Sales Promotion Material

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See: Driers, Windwhip

WIRE AND CABLE, INSULATED

Chase Brass & Copper Co.
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WIRE BASKETS

See: Baskets, Wire

WIRE HANGERS

See: Hangers, Garment

WIRE STAPLES

See: Staples, Wire

WOOD BASKETS

See: Baskets, Wood

WOOD BOXES

See: Boxes, Wood

WOOD CYLINDERS

See: Cylinders, Wood

WOOD FOLDING BOXES

See: Boxes, Wood

WOOD HAMPERS

See: Hampers

WOOD HAND TRUCKS

See: Trucks, Industrial

WOOD HANGERS

See: Hangers, Garment

WOOD PAINT

See: Paint

WOOD RACKS

See: Racks (under specific headings)

WOOD TABLES

See: Tables, Wood

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See: Tanks, Wood

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See: Trucks, Industrial

WOOD TUBS

See: Tubs, Wood

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See: Vats, Wood

WOOD WASHERS

See: Washers, Drycleaning, Wood, or Washers, Laundry, Wood

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See: Uniforms, Cotton, Woolen, Worsted, etc.

WOOLEN AND CURTAIN DRIERS

See: Driers, Woolen and Curtain

WOOLEN BLEACH

See: Bleach

WOOLEN SOAPS

See: Soaps, Silks and Woolens

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See: Belting, Woven

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See: Labels, Woven, Marking

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See: Paper, Wrapping

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ZIPPER REPAIR AND EQUIPMENT SUPPLY

See: Fasteners, Slide, Repair Equipment and Tools

ZIPPERS

See: Fasteners, Slide

Trace Names

products used in the laundry industry and their manufacturers

A

A-B, marking tags, Boston Clip & Tag Co.
AB, sock tag, Boston Clip & Tag Co.
ABC, payroll system, Todd Co., Inc.
ACLS, concentrated liquid stripper and reducing agents, Carman & Co., Inc.
A.P.D., albumen protein digester, Wonder Wash Corp.
ATC, controls and regulators, time switches, Automatic Temperature Control Co., Inc.
ABEST, cleaning machine, Abest Equipment Co.
ARSO-SOFT, water softener, Kisco Boiler & Engineering Co.
A.C.S. PRIMER, anti-corrosive base primer, Tropical Paint & Oil Co.
ACCELERATOR, water softeners, Inbico, Inc.
ACCUMETER, automatic centralized lubrication systems, Alemite Div., Stewart Warner Corp.
ACS, dryingcleaning tumblers, solvent reclaimers, Ace Cabinet Corp.
ACE, rubber hose, Ace Hose & Rubber Co.
ACE, stapler, staples, Ace Fastener Corp.
ACE, starch cookers, Hammond Laundry-Cleaning Machinery Co.
ACE OF HEARTS, red indelible ink, Boston Clip & Tag Co.
ACE OF SPADES, black indelible ink, Boston Clip & Tag Co.
ACETATE OF ALUMINA, water repellent, Jacques Wolf & Co.
ACETEX, sour, Hood Chemical Co., Inc., Crescent Div.
ACETI SOUR, sour for drycleaners, Standard Chemical Works Co.
ACE-TON, cover cloth, Magla Products
ACID-SUDS, rug cleaning detergent for light colors, Certified Chemical & Equipment Co.
ACKER, return systems, traps, W. M. Acker Organization, Inc.
ACME, dyeing, Acme Dye House, Inc.
ACME, folding box, Rosenthal Paper Co.
ACME, laundry soap and builders, powder, Acme Soap Co.
ACME BRAND, hat chemical and bleach, Acme Hatters Supply Co.
ACME F.O.Y., fuel treatment, Acme Industrial Compounds Corp.
ACME SCALE OUT, boiler feed-water treatment, Acme Industrial Compounds Corp.
ACME SOOT STOP, soot removers, Acme Industrial Compounds Corp.
ACORN, round belting, Graton & Knight Co.
ACOUTOLIGHT, acoustical paint, U. S. Gutta Percha Paint Co.
ACTICAN, odor-, taste-removal filter, Hungerford & Terry, Inc.
ACTIVATOR, laundry washing machines, General Electric Co.
AC TREATMENT, anti-corrosion water treatment, Elgin Softener Corp.
ADAMS, reweaving, Adams Weaving Co.
ADAPT-O-MATIC, finishing machine, J. W. Steele & Co.
ADCO, detergent, wet paste soap, rug shampoo, Adco, Inc.
ADCO ATOMIZER, soap dispenser, Adco, Inc.
ADCO FUME, liquid gas fumigant, Adco, Inc.
ADCO SUDS, dryingcleaning soap, Adco, Inc.
ADD-A-UNIT, curtain stretcher, Rosenthal Mfg. Co.
ADD-A-UNIT, shirt-sorting bins, Time Savers, Inc.
ADDRESSOGRAPH, addressing equipment, Addressograph-Multigraph Corp.
A. D. FLAME PROOFER, fire repellent, Huntington Laboratories, Inc.
ADJUSTA-FORM, steam-air finisher, Wichita Precision Tool Co., Inc.
ADJUSTIT, adjustable garment hangers, Hopkins Equipment Co.
ADJUST-O-FEEDER, constant rate proportioning pump, Proportioners, Inc.
ADRIAN, dryingcleaning soap, liquid and powder wetcleaning soap, powder rug cleaning soap, spotting and mothproofing agents, Adrian Research & Chemical Co., Inc.
ADSCO, expansion joints, steam traps, water heaters, American District Steam Co., Inc.

ADS-LIFE, nylon cover cloth, Whitehouse Nylon Products
ADVANCE AIRDRY TUMBLER, laundry and dryingcleaning tumbler, Driair Process Machinery Co.
ADVANCE LOWBOY, floor and rug maintenance machinery, Advance Floor Machine Co.
ADVANCE SPEEDWAY, floor and rug maintenance machinery and equipment, Advance Floor Machine Co.
A. E. PERFECT SPREAD, stokers, American Engineering Co.
AERCO, heat exchanger, hot water heater, Aerco Corp.
AERO, double collar support, J. W. Steele & Co.
AERO-MAGNETTE, circuit breakers, Heinemann Electric Co.
AERON, marking paint, Subox, Inc.
AIRCON, continuous conditioning tumbler, American Laundry Machinery Co.
AIR CHIEF, truck tire, Mohawk Rubber Co.
AIRCRAFT, drying tumbler, American Laundry Machinery Co.
AIR DRY TUMBLER, laundry and dryingcleaning tumbler, Driair Process Machinery Co.
AIRFOAM, latex cushioning for press pads, Goodyear Tire & Rubber Co.
AIRFORM, coat and jacket shapers, U. S. Hoffman Machinery Corp.
AIR-LOK, cuff-drying hanger, R. D. Bussard & Son
AIR MASTER, dehumidifying unit, Walter Haertel Co.
AIROCOOL, industrial gas burners, National Airoil Burner Co., Inc.
AIROVENT, blowers, National Airoil Burner Co.
AIRTEMP, air-conditioning equipment, Chrysler Corp., Airtemp Div.
AIR-TRED, sponge rubber floor matting, American Mat Corp.
AIRVENT, ventilating canopies for flatwork ironers, American Laundry Machinery Co.
AIRWAY, cuff cleaner, Kirk's Leather Cleaners
AIRWAY, laundry and hair-removal type drier, American Laundry Machinery Co.
AIRWHEEL, traps, Wright-Austin Co.
AJAX, dryingcleaning laundry presses, Western Laundry Press Co.
AKUSTAN, fire retardant, General Dyestuff Corp.
AKRO, garment bag, Akro Paper Co.
AKTIV, drain opener, Turco Products, Inc.
AKUSAKA, wax, T. G. Cooper & Co., Inc.
ALBERT, lubricating greases, Adam Cook's Sons, Inc.
ALBAPHOR, textile whitener, Carlton Chemical Co., Inc.
ALBA-VIS, general purpose oil, Adam Cook's Sons, Inc.
AL-BEX, stain remover, Spix Products Co.
ALBEMITE, hydrogen peroxide, E. I. du Pont de Nemours & Co., Inc.
ALBRA, brushes, brooms, Braun Brush Co.
ALEMITE, lubricants and oils, lubricating equipment, Stewart-Warner Corp., Alemite Corp.
ALEMITE VERSATAI, spray equipment, Stewart-Warner Corp., Alemite Corp.
ALERT, boilers, heaters, tanks, Alert Boiler & Mfg. Co.
ALERT, fire extinguishers, American-La France-Foamite Corp.
ALERT, watchmen's clocks, Detex Watchclock Corp.
ALFCO, all types fire extinguishers, motorized firefighting apparatus, American-La France-Foamite Corp.
ALFCOSFRAY, nozzles, American-La France-Foamite Corp.
ALFORD, all types fire extinguishers, American-La France-Foamite Corp.
ALGONQUIN, soap, Lewis National Corp.
ALIZAMINE, aniline dyes, American Aniline Products, Inc.
ALKALATE, laundry detergent, Diamond Alkali Co.
ALKALOS COMBINATION, self-mixed soap detergent, Morton Products Co.
AL-KLOR, liquid dryingcleaning detergent, Davies-Young Soap Co.

ALKOLUBE, alkali, Washine National Sands, Inc.
ALKON, laundry breaks, George Stearns Chemical & Mfg. Co.
ALKOSOL, alkali soap builder, Carlton Chemical Co., Inc.
ALL-CYLER, bleach, Watco Laboratories
ALL-DAY, laundry marking tag, Boston Clip & Tag Co.
ALLEGHENY METAL, stainless steel, Allegheny Ladium Steel Corp.
ALLEN, electric steam generators, steam electric and electric iron, H. P. Cooper & Co.
ALLEN WALES, adding machines, National Cash Register Co.
ALLIED, promotional material, Allied Printing & Stationery Co., Inc.
ALLIGATOR, belt fasteners, belt cutters, Flexible Steel Lacing Co.
ALL-IN-ONE, air-conditioning unit, Chrysler Corp., Airtemp Div.
ALL-IN-ONE, dryingcleaning systems, filters, washers, All-In-One Mfg. & Supply Co.
ALL IN ONE, zipper repair kit, spotting gun, press clamp, sleeve formers, auto rack, Newhouse Co.
ALLACK, laundry nets and fabrics, Davis Mills Inc.
ALL-PURPOSE, shirt unit, Prosperity Co., Inc.
ALL-PURPOSE, sour, Thompson-Hayward Chemical Co.
ALL-PURPOSE, starch, A. E. Staley Mfg. Co.
ALL-STEEL, scales, Triner Scale & Mfg. Co.
ALLWYN, trouser shaper, Hoebeuch Div., American Laundry Machinery Co.
ALLWEATHER, fire extinguishers, American-La France-Foamite Corp.
ALL WIRE, garment hangers, Star Service Wanger Div., L. A. Young Spring & Wire Corp.
ALMCON, automatic washing control, American Laundry Machinery Co.
ALPHA, oil pumps, Lunkenheimer Co.
ALRYE, pins, trays and tray cabinets, marking pins, Keyes-Davis Co.
ALROLENE 70, petroleum dryingcleaning detergent, Alrose Chemical Co.
ALROLENE 68, synthetic dryingcleaning detergent, Alrose Chemical Co.
ALROFEL, water repellents, Alrose Chemical Co.
ALROSENE 31, synthetic detergent, Alrose Chemical Co.
ALSEN, oil cups, Lunkenheimer Co.
ALUMEX 50, 60, 70, high alumina firebrick, kiln liners, Mexico Refractories Co.
ALUMIKOTE, aluminum paint, Vita-Var Corp.
ALUMINOX, high-heat aluminum paint, Sothen, Inc.
ALUMINUM OILITE, bearings and parts, Chrysler Corp., Amplex Div.
ALVOR, oil control, Lunkenheimer Co.
AMACIA, acetate dyes, American Aniline Products, Inc.
AMAFORM, dyeing agent, American Aniline Products, Inc.
AMALAN, dyestuffs, American Aniline Products, Inc.
AMALIE, oils and greases, L. Sonneborn Sons, Inc.
AMANTHRENE, aniline dyes, American Aniline Products, Inc.
AMAPIRO UNION, aniline dyes, American Aniline Products, Inc.
AMAZON, washing powder, Swift & Co.
AMAZONE, ozone generators, American Ozone Co.
AMBASSADOR, continuous towel cabinet, Ambassador Continuous Cabinet Co.
AMBER, all-metal sleeve board, sleeve form, sleeve press board, press lamp, steam iron stand, iron stand, iron rest, Amber Mfg. Co.
AMBER, reweaving supplies and equipment, Amber Reweaving Service
AMBER FLAKES, neutral yellow soap, Procter & Gamble Distributing Co.
AMERICAIN, first aid for cuts, burns and bruises, Americaine, Inc.
AMERICAN, continuous towel cabinets, paper towel cabinets, Steiner Sales Co.
AMERICAN, curtain and blanket finishing equipment, American Laundry Machinery Co.

AMERICAN, drying and deodorizing cabinet, American Laundry Machinery Co.
AMERICAN, flatwork feeder and spreader, American Laundry Machinery Co.
AMERICAN, high-speed tumblers, American Laundry Machinery Co.
AMERICAN, industrial instruments, Manning, Maxwell & Moore, Inc.
AMERICAN, laundry and drycleaning solid-curb extractors, American Laundry Machinery Co.
AMERICAN, men's dress and sport shirts, pajamas, American Shirt Co.
AMERICAN, paint-removing solvent, Adco, Inc.
AMERICAN, starch cookers, American Laundry Machinery Co.
AMERICAN, water meters, Buffalo Meter Co.
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AMERICAN CASCADE, washers, American Laundry Machinery Co.
AMERICAN FORMATIC, shirt unit, American Laundry Machinery Co.
AMERICAN-LA FRANCE, fire extinguishers, motorized fire-fighting apparatus, American-La France-Foamite Corp.
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AMERICAN MONARCH, leather cleaning and sterilizing system, American Laundry Machinery Co.
AMERICAN O. T., drycleaning extractor, American Laundry Machinery Co.
AMERICAN SUPER SPEED, tumblers, American Laundry Machinery Co.
AMERICAN SYSTEM, shirt conveyor and presses, American Laundry Machinery Co.
AMERICAN TYPE A and TYPE C, semi-automatic washer controls, American Laundry Machinery Co.
AMERICAN VISIBLE, hand numbering machine, American Numbering Machine Co.
AMERICAN ZONE-AIR, leather reconditioning unit, American Laundry Machinery Co.
AMERICAN ZONE-AIR, laundry and drycleaning tumblers, American Laundry Machinery Co.
AMES, boiler engines, etc., Ames Iron Works
AMESTEAM, steam generator, Ames Iron Works
AMICO, washers and extractors, U. S. Hoffman Machinery
AMINOL, drycleaning detergent, Trico Chemical Div., Tri-State Equipment Co.
AMMOCLIDE, laundry sterilizer, mildew preventative, Carlton Chemical Co., Inc.
AMORDEX, extractor covers, Patek & Co.
AMPROZYME, enzymic product, Jacques Wolf & Co.
AMSCO, high-flash Stoddard solvent, 140°F solvent, special naphtha, American Mineral Spirits Co.
AMTILIN, laundry starches, National Starch Products, Inc.
ANCHOR ALKALI, alkali cleanser, Solvay Process Div., Allied Chemical & Dye Corp.
ANDERSON, paper collar supports, Howe Paper Corp.
ANDERSON, pipe-line strainers, steam traps, V. D. Anderson Co.
ANDERSON EASY LOCK, drapery protector, Anderson Specialty Mfg. Co.
ANDREA, measuring chart, M. Andreas
ANGELICA, washable service apparel, Angelica Uniform Co.
ANHYDRO, spotting agent, A. L. Wilson Chemical Co.
ANOLITE, anhydrous emulsifier, R. R. Street & Co., Inc.
ANSUL, fire extinguishers, Ansul Chemical Co.
ANTHONY, oil burners, pipe-line strainers, valve, Anthony Co.
ANTHONY NEBULITE, gas, gas-oil, oil burners, torches, Anthony Co.
ANTI-CRUSH, double collar supports, J. W. Steele & Co.
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APACHE, soap builder, Wyandotte Chemicals Corp.
APCO 140, flash naphtha, Anderson-Prichard Oil Corp.
APPLIGATE, indelible ink (silver base), laundry marking pens, linen marking machine (hand, foot and motor power), Appligate Chemical Co.
APPLICET, powdered aluminum acetate, Arnold-Hoffman & Co., Inc.
AQUADOL, wet spotter and neutral lubricant, Stamford Chemical Co.
AQUANOL, wire and cable, General Electric Co.
AQUASTEAM, printing iron system, Automatic (Sussman) Steam Products Corp.
AQUAWAX, self-emulsifying lubricant wax, Concord Chemical Co.
ARABOL, starch, Arabol Mfg. Co.
ARBUSU, soap, Minnesota Chemical Co.

ARCTIC, fire extinguishers, American-La France-Foamite Corp.
ARCTIC CRYSTAL, all-tallow soap and granulated flakes, Colgate-Palmolive-Peet Co.
ARCTIC SYNTHEX, synthetic detergents, Colgate-Palmolive-Peet Co.
ARDEX-FER, roseable water repellent, E. I. du Pont de Nemours & Co., Inc.
ARISTOCRAT, pillow tickings, R. Lilly Co.
ARISTOCRAT, safety pins, William Prym, Inc.
ARK-VAK, leather belting, Philadelphia Belting Co.
ARLAC, alkali, soap builder, Wyandotte Chemicals Corp.
ARMA, marking machines, daily delivery tags, loop tags, dispenser tags, day tags, safety pins, Pittsburgh Tag Co.
ARMITE, anti-seize compound, thread lubricant, joint seal compound, gasket paste, Armite Laboratories
ARMOFOS, sodium tripolyphosphate, anhydrous, A. R. Mass Chemical Div., Victor Chemical Works
ARMOTUBE, pneumatic armored tubing, Bailey Meter Co.
ARMOUR, soaps and synthetics, Armour & Co., Industrial Soap Div.
ARMOWAX, domestic hard wax, Armour & Co.
ARMSTRONG, humidifiers, strainers, traps, Armstrong Machine Works
ARMS, 1270, nylon, wool press cloth, Arms Textile Mfg. Co.
ARRESTO-MOTH, mothproofing compound, Pennsylvania Salt Mfg. Co.
ARROW, cuff fasteners, Lee Mfg. Co.
ARROW, sponge pads, Arrow Mfg. Co.
ARROW, staples, staples, staple removers, Arrow Fastener Co., Inc.
ARROW, wood tanks, tubs, cylinders, outside shells, vats and washers, Arrow Tank Co., Inc.
ARROW LAUNDRY-PAD, laundry press pad, Arrow Mfg. Co.
ARROW LINE, hat renovating, manufacturing and blocking machinery, American Hatters Supplies, Inc.
ARROW LONG ARM, long-reach stapler, Arrow Fastener Co., Inc.
ARSECO, washing compounds and specialties, alcoholic type anti-freeze, Riverside Chemical Co.
ASBESTALL, blended nylon and asbestos press cloths, U. S. Rubber Co.
ASBESTEX, asbestos covers, X. S. Smith, Inc.
ASBESTON, chest-type flatwork ironer cover, U. S. Rubber Co., Textile Div.
ASHCROFT, indicating and recording pressure gauges, Manning, Maxwell & Moore, Inc.
ASHVEYOR, pneumatic conveyor system, Brady Conveyor Co.
ASSEMBLY ARC, fittings to facilitate assembly of garments, Time Savers, Inc.
ASSISTEX, concentrated drycleaning soap, Takamine Laboratory, Inc.
ATLANTIC, non-sour blue, Beach Soap Co.
ATLAS, extractor, Troy Laundry Machinery Div., American Machine & Metals, Inc.
ATLAS, truck bodies, Atlas Body Co.
ATLAS FIRE RETARDANT, flameproof agent, H. Kohnstamm & Co., Inc.
ATLAS GRAVITY FEEDER RACK, for flatwork ironers, Atlas Steel Products, Inc.
ATLAS MOISTURE CONTROL, for control of moisture retention in laundry extractors, Atlas Steel Products, Inc.
ATLAS RUST SOUR, sour, H. Kohnstamm & Co., Inc.
ATOMIC, drycleaning systems, wet washers, Hammond Laundry-Cleaning Machinery Co.
ATOMIG, rug, upholstery and fabric cleaning shampoo, Theobald Industries
ATOMOL, drycleaning filter soap with antiseptic and mothproofing, A. F. Wolke Co.
ATTALOS, colloidal clay, Attapulug Clay Co.
ATTORIS, fur glaze and cleaning fluid, Bernard Sirota Co.
AUTOGRAFIC, registers, business forms, Autographic Register Co.
AUTO-KLEAN, filters, Cuno Engineering Corp.
AUTO-LEVEL, boiler return system, Spotwood Parker & Co.
AUTO-LITE, gauges, indicating and recording thermometers, Electric Auto-Lite Co.
AUTOMATIC, lubricators, Victor Lubricator Sales Co.
AUTOMATIC, spray guns, OlsenMark Corp.
AUTOMATIC PALLET LOADER, automatic stacker of cotton, Lamson Corp., Blower Div.
AUTO-FER, synthetic solvent drycleaning unit, Vic Cleaning Machine Co.
AUTOSET, a type of free-vane air-operated controller, Bristol Co.
AVAGLO 20, drycleaning soap, Allen & Vickers, Inc.
AVEE, dry spotter, wet spotter, rug soap, upholstery cleaner, hat cleaning soap, Allen & Vickers, Inc.
AXIAL-FLOW, exhaust fan, DeBothezat Fans Div., American Machine & Metals, Inc.
AXTEX, first quality, stiff mud firebrick, Mexico Refractories Co.
AYR-MOR, drycleaning and laundry tumblers, drycleaning systems, Ayr-Mor Machinery Co.
AZTEX, high heat duty diffuser, Mexico Refractories Co.

B
BB, white grease, low-pressure grease, Keystone Lubricating Co.
B & G, conveyors, all types, B & G Machinery Co.
B.N.B., collar support, clasp, loop, J. W. Steele & Co.
B. M. D., concentrated liquid drycleaning detergent, Benda Products, Inc.
B. & W., boilers, Babcock & Wilcox Co.
B.E., headstain remover, John F. Lynch Co.
BABSOY, spotter and lubricant, Slater-Robbins Co., Inc.
BABSTOD, concentrated drycleaning soap, Slater-Robbins Co., Inc.
BASTEX, lipstick and paint remover, Slater-Robbins Co., Inc.
BAB-ZYME, digester, Slater-Robbins Co., Inc.
BADER, pants stretcher, C. L. Bader Co., Inc.
BADER SOLVENT PURIFIER, process for cleaning solvent, C. L. Bader Co.
BADGER, break powder, Minnesota Chemical Co.
BADGER, liquid soap, Colgate-Palmolive-Peet Co.
BAFFLE-CRETE, first quality cuttable for half construction, Mexico Refractories Co.
BAG N' NET, holder, Time Savers, Inc.
BAG-O-MATIC, combined bagger, invoice desk, bag storage rack, G. H. Bishop Co.
BAG-O-TEER, garment bagger, G. H. Bishop Co.
BAHNSON, centrifugal humidifier, Bahnsen Co.
BALANCED DRIVE, washers, Troy Laundry Machinery Div., American Machine & Metals, Inc.
BALSAM-WOOL, blanket insulation, Wood Conversion Co.
BAND BOX, drycleaning systems, synthetic solvent, Band Box Corp.
BANNER, fluting machines, Maxant Button & Supply Co.
BANNER, lubricator, Lunkenheimer Co.
BANNER BRAND, button, buckle, pinning, fluting, pleating, darning machines, Maxant Button & Supply Co.
BANTAM, autographic registers, Autographic Register Co.
BANTAM, laundry washer, Troy Laundry Div., American Machine & Metals, Inc.
BANTAM, net, Southern Mills, Inc.
BARCO, flexible steam, revolving and swing joints, Barco Mfg. Co.
BARRELED SUNLIGHT, enamels, paints, varnishes, Barreled Sunlight Paint Co.
BARRETT SPECIFICATION, roofing pitch and roofing felt, Barrett Div., Allied Chemical & Dye Corp.
BAR-RUST, exterior and interior inhibitive paint for steel and pipe, Midland Paint & Varnish Co.
BASEX, zeolite, Hungerford & Terry, Inc.
BASKE TRUCK, wire basket truck, G. H. Bishop Co.
BASSICK, casters, wheels, Bassick Co.
BEACHRITE, built soap, Beach Soap Co., Inc.
BEACON, bluing, Hood Chemical Co., Inc., Crescent Div.
BEAT-ALL, covers, nets, padding, Tingle, Brown & Co.
BEAU-CLEAN, drycleaning soap, Murphy Sales Co.
BEAVER, pipe and hole cutting and threading hand tools and machines, Beaver Pipe Tools, Inc.
BEAVER LUSTER, fur luster, Nycco Products Co.
BECKMAN, pH meters and other analytical instruments, Beckman Instruments, Inc.
BEEHIVE, spring padding, Western Laundry Press Co.
BELCO, water softeners, Belco Industrial Equipment Div.
BELCOLITE, zeolite, Belco Industrial Equipment Div.
BEL-JO, starch, A. E. Staley Mfg. Co.
BELLMASTER, mechanical pipe joint for cast-iron pipe, Dresser Mfg. Div., Dresser Industries, Inc.
BELMONT, gaskets, packings, Belmont Packing & Rubber Co., Inc.
BELT-ZIP, belt hanger, Para-Lux Products Co.
BENDA, liquid drycleaning soap, paint and grease remover, Benda Products, Inc.
BENDA-ZYME, digester, Benda Products, Inc.
BENDIX, seamless flexible metal hose, Eclipse Pioneer Div., Bendix Aviation Corp.
BENTEC, synthetic detergent, Wyandotte Chemicals Corp.
BENZOCARDINOLE OXO, detergent, Apex Chemical Co., Inc.
BERGER, steel lockers, shelving, cabinets, bins, benches, desks and tables, Republic Steel Corp.
BERKSOL, drycleaning soap, Stadham Co., Inc.
BERKSTRIP, stripper, Stadham Co., Inc.
BERKSUDS, synthetic detergent, Stadham Co., Inc.
BERLOU, mothproofing agent, Berlou Mfg. Co.
BERSENE, water softener, Bersworth Chemical Co.
BERSONITE, built soaps, Stadham Co., Inc.
BESSLER, steam generators, superheaters, Bessler Corp.
BESTELL, straight pins, Fleischer Mills, Inc.
BEST FORMS, tag identification systems, Best Form Co., Inc.
BESTO, synthetic wetcleaning detergent, Nu-Pro Mfg. Co.
BESTOS, asbestos covers, padding, Tingle, Brown & Co.
BEST YET, cellophane ribbon, cotton twines, New York Twine Corp.

BETE, fog and spray nozzles, Bete Fog Nozzle, Inc.

BIFURCATOR, duct fan, DeBothezat Fans Div., American Machine & Metals, Inc.

BIG CHIEF, laundry nets, Southern Mills, Inc.

BIG CHIEF, truck tires, Mohawk Rubber Co.

BIG CHIEF, wood washers, Illinois Laundry Machinery Mfg. Co.

BIG 4, stripper, Eaton Chemical & Dyestuff Co.

BIG FLO, blurs, Butler Mfg. Co.

BIG FOUR, firebrick, Mexico Refractories Co.

BIG HORN, bentonite clay, Wyotana Mining Co.

BIG HORN WYOMING, colloidal clay, Wyotana Mining Co.

BIG INCH, pressure-sensitive tape dispensers, Better Packages, Inc.

BIGMOUTH, shake-out tumbler, Purkert Mfg. Co.

BIG SAVAAGE, high heat duty firebrick, Mexico Refractories Co.

BIG SAVAAGE SUPER, firebrick, Mexico Refractories Co.

BILLINGSLEY, extractors, filters, washers, Billingsley Machinery Co.

BILLMYRE DRYSET, press, Lamson Corp.

BILVIS-X, detergent and soap builder, Warco Laboratories

BINGCO, draughting opener, Huntington Laboratories, Inc.

BINKS, spray painting equipment, Binks Mfg. Co.

BIONOLS, germicides, General Dyestuff Corp.

BIOFALS, germicidal detergents, General Dyestuff Corp.

BISHOP, laundry and drycleaning appliances and light production equipment, G. H. Bishop Co.

BISNO, sewing room supplies, Bisno Supply Co.

BISONITE, plastic coating, Washine National Sands, Inc.

BIXBEE 120, fur and leather cleaning aid, Bixbee Research Div. of Blazemaster, Inc.

BIXLER, conveyors, National Marking Machine Co.

BLACK DIAMOND, roofing pitch and felt, Barrett Div., Allied Chemical & Dye Corp.

BLACK LINE, knitted padding, Minnesota Chemical Co.

BLACK MAGIC, pipe-sealing compound, gasket cement, Bowser, Inc.

BLACKMER, rotary hand and power pumps, Blackmer Pump Co.

BLACK OUT, ink remover, J. L. Hardin Co., Inc.

BLANCH-STIK, stain remover, Keystone Aniline & Chemical Co., Inc.

BLANCO, all-fabric stripper, Keystone Aniline & Chemical Co., Inc.

BLANKETMASTER, blanket washing machine, Hopkins Equipment Co.

BLAZE-PRUF, flameproof, Crossland Mfg. Co., Inc.

BLENCO, rug cleaning sour, Blenco Co.

BLENDISOL, drycleaning soap, R. H. Street & Co., Inc.

BLOOD-I-CATER, spot remover, W. F. Johnson Products Co.

BLOOD-MUV, stain remover, Package Chemical Co., Inc.

BLOOD-PLUS, spotting aid, Ink-O Products Co.

BLO-R-VAC, water pickup cleaner-vacuum, Ideal Industries, Inc.

BLOOD-X, concentrated liquid enzyme, Huntington Laboratories, Inc.

BLUE BELL, blue, H. Kohnstamm & Co., Inc.

BLUE BONNET, blue, H. Kohnstamm & Co., Inc.

BLUE-EDGE, aprons, wetwash bags, Lewis National Corp.

BLUE LABEL, talrow soap, Beach Soap Co.

BLUE LINE, collar supports, hangers, shirt bands, necktie hangers, Loroco Industries, Inc.

BLUE RIBBON, laundry nets, Southern Mills, Inc.

BLUE RIBBON, polishes, waxes, International Metal Polish Co.

BLUE RIDGE, leather belting, waterproof leather belting, Charlotte Leathers Belting Co.

BLUE SLAK, feed rubbers, New York Belting & Packing Co.

BLUE STREAK, nylon nets, Whitehouse Nylon Products

BLUE STRIPE, cover cloth, padding, William E. Hopper & Sons

BLUFIXE, sour, H. Kohnstamm & Co., Inc.

BLUFIXE EXTRA-SOLUBLE, sour, H. Kohnstamm & Co., Inc.

BLUREX, sour, Hood Chemical Co., Inc., Crescent Div.

BLU-TINT, sour and blue combination, Johnson Chemical Industries, Inc.

BLUTONE, liquid blue, E. F. Drew & Co., Inc.

BOCK, drycleaning, laundry extractors, Bock Laundry Machine Co.

BOCONITE, mothproofing compound, Bokon Chemical Co.

BOGUE, motors, generators, Belco Industrial Equipment Div.

BOW-A-KLEEN, boiler compound, Patek & Co.

BOILER LAX, boiler cleaning compound, Radiator Specialty Co.

BOILER SOLDER SEAL, metallic powder for boiler repairs, Radiator Specialty Co.

BONASOL, textile dyeing assistants, American Aniline Products, Inc.

BOND, truck casters, Bond Foundry & Machine Co.

BONDERITE, corrosion-resistant paint, Tropical Paint & Oil Co.

BOND SET, silica base bonding mortar, Mexico Refractories Co.

BONE-DRI, water repellent, Benda Products, Inc.

BONES, for drums, fur sewing machine, Bonis Bros. Fur Machinery Corp.

BON-SPUN, nylon press covering, F. H. Bonn Co.

BON-TEX, nylon press covering, F. H. Bonn Co.

BON-TWIL, nylon press covering, F. H. Bonn Co.

BOOSTER, shirt unit, Unipress Co., Inc.

BORASUDS, textile scouring, Essential Chemicals Co.

BOROCOLOR, liquid bleach, H. Kohnstamm & Co., Inc.

BOSTAGS, marking tags, Boston Clip & Tag Co.

BOSTITCH, cuff tackers, stapling machine, staples, Bostitch, Inc.

BOW, collar support, Package Masters, Inc.

BOWSER, stills, filters, Bowser, Inc.

BRANFORD, oil burners, Malleable Iron Fittings Co.

BREADY, heat reclaimers, heat exchangers, storage and water heaters, Bready Engineering Corp.

BREAK-AID, solvent pine oil, Thompson-Hayward Chemical Co.

BREAK-O, break powder, Swift & Co.

BREAK-PHOS, soap regenerator, Thompson-Hayward Chemical Co.

BRECKEN, break detergent, E. F. Drew & Co., Inc.

BREECH LOCK, cast-steel gate valves, Lunkenheimer Co.

BREX-OLER, controls, Bressler Engineering Services

BREX, break compound, Procter & Gamble Distributing Co.

BRIDGEPORT, copper water tubing, Bridgeport Products Co.

BRIGHTLO, wetcleaning detergent, Merson Products Co.

BRILLANTONE, sour, G. S. Robins & Co.

BRILLO, grease, Brillo Mfg. Co., Inc.

BRINE-O-LATOR, water-softening equipment, Carey Salt Co.

BURST, multiple spline socket set screws, hollow head cap screws, Bristol Co.

BRISTOL, starch, H. Kohnstamm & Co., Inc.

BRISTOL'S, instruments, Bristol Co.

BRITE, paint drycleaning soap, Keystone Aniline & Chemical Co., Inc.

WRITEWHITE, laundry blue, Washine National Sands, Inc.

BRIX, sour, powdered soap, Van Chemical Co.

BRI-TONE, drycleaning concentrate, Spix Products Co.

BRIZENE, drycleaning soaps, Patek & Co.

BROWNELL, boilers, heat exchangers, stokers, Brownell Co.

BROX, dirt-cut cardboard, Alfred J. Brooks

BROXFORMS, shirt boxes, Alfred J. Brooks

BRU-CEX, water conditioning, feeders and chemicals, Bruner Corp.

BRUNNER, air compressors, air conditioners, refrigeration condenser, Brunner Mfg. Co.

BRUSH-AWAY, hand-brushing drycleaning soap, Raychem Products Co.

BRUSHENE, hand-brushing soap, Keystone Aniline & Chemical Co., Inc.

BRUSH-KLEEN, brushing soap, Adco, Inc.

BRUSH-OUT, liquid drycleaning soap, Caled Products Co., Inc.

BRY-L, boiling, steamcleaning, steamers, Bry-L Products Co., Inc.

BSC BRAND, covers, pads, flannels, cloth bags, Baltimore Specialties Co.

BURBLE RUB CONCENTRATE, upholstery shampooing soap, Keystone Chemical Co.

BUCKEYE, drycleaning washer, American Cleaners Equipment Co., Div. American Laundry Machinery Co.

BUCKEYE, soaps, spotters, stain remover, suede leather dressing, water repellent, paint, oil and grease remover, rug and upholstery shampoo, Davies-Young Soap Co.

BUCKEYE KIOR-LENE, spotter, Davies-Young Soap Co.

BUCKEYE LIQUA-BREAK, break and stain remover, Davies-Young Soap Co.

BUCKEYE WET SPOTTER, all-around wet spotter, Davies-Young Soap Co.

BUCKEYE ZYMATIC, digestive spotter, Davies-Young Soap Co.

BUDA, industrial trucks, Buda Co.

BUFF, alkali compound, special detergents, E. F. Drew & Co., Inc.

BUFFALO, extractor, filter, still, Gross Machinery Co., Inc.

BULLDOG, nylon laundry nets, metal press pads, X. S. Smith, Inc.

BUMINOL, albuminous stains and blood remover, Spix Products Co.

BUNG, special brick for malleable furnaces, dry press, Mexico Refractories Co.

BUNN, bundle-tying machine, B. H. Bunn Co.

BURBAK, cotton padding, Pittsburgh Waterproof Co.

BURKS, boiler feed, condensation return feeds, turbine, centrifugal pumps and water system, D. Burks Pump Co., Inc.

BURROMIN, boiler water treatment, Hagan Corp.

BURROUCHS, accounting, adding, bookkeeping, calculating, cash-registering machines, business machine supplies, Burroughs Adding Machine Co.

BUSSARD, spooled pants pocketing, collapsible extractor cover, R. D. Bussard & Son

BUS-TRUCK CHIEF, truck tires, Mohawk Rubber Co.

BUTLER, boiler water treatment, mechanical descaler, Butler Engineering Co.

BUTLER, complete drycleaning plant equipment, Butler Mfg. Co.

BUTLER STILL, solvent distillation unit, Butler Mfg. Co.

BUTONOLE, hub perforating dye tag, Boston Clip & Tag Co.

BUTTON-NO-BUTTON, loop and clasp, J. W. Steele & Co.

BYLAN, cover cloth, Magla Products

C. B., detergent, Adco, Inc.

C-30, drycleaning detergent, Nu-Pro Mfg. Co.

C-34, electrical equipment, Cutler-Hammer, Inc.

C-L, washers, extractors, Cummings-Landau Laundry Machinery Co., Inc.

CM, fire retardant, E. I. du Pont de Nemours & Co.

CMH, expansion joints, expansion bellows, flexible metal conduit, Flexonics Corp.

C & S, cleaning powder, Swift & Co.

CABINETROL, control vessel equipment, General Electric Co.

CABINET-SAN, deodorant, Huntington Laboratories, Inc.

CALDWELL, tank, W. E. Caldwell Co., Inc.

CALECO, drycleaning, laundry, starch extractors, wood laundry washer, wood cylinders, California Laundry Equipment Co.

CALED L-S, a liquid soap for drycleaning use, Caled Products Co., Inc.

CALGON, detergents, metaphosphate, rug cleaning and finishing compound, sizings, sodium metaphosphate, solvent, lime soap, water conditioners, chemical water softeners, Calgon, Inc.

CALICO, medium-titer built soap, Procter & Gamble Distributing Co.

CALLANET, knitted nylon nets, Callaway Mills, Inc.

CALROD, flation, General Electric Co.

CAL-SILITE, pipe-covering blocks, Ruberoid Co.

CAL-SIZE, liquid or powder sizing, Caled Products Co., Inc.

CAL-SOAP, drycleaning soaps, Caled Products Co., Inc.

CAL-STRIP, liquid concentrated agent, Caled Products Co., Inc.

CAL-TEX, saponified oil-solvent blend with soap, Caled Products Co., Inc.

CAMBRIDGE, electrical and mechanical precision instruments, Cambridge Instrument Co., Inc.

CAMELFORMS, laundry shells, Campbell Box & Tag Co.

CAMELTAGS, laundry tags, Campbell Box & Tag Co.

CAMEO, starch, A. E. Staley Mfg. Co.

CAMERON, pumps, Ingersoll-Rand Co.

CAMPBELL MICRONETIC, water and signal alarms, J. A. Campbell Co.

CANTON, stokers, steam generators, power plant equipment, Canton Stoker Corp.

CAPITAL, marking tags, U. S. Marking Tag Co.

CAPITAL, posters, display frames, inserts, Fargament-Fidler, Inc.

CAPITAL, posters, streamers for window display, Capital Poster Service

CAPITOL, paint and grease remover, Allen & Vickers, Inc.

CARBEX, silicon carbide super-refractory brick, McLeod & Henry Co., Inc.

CARBIDE METHANOL, alcohol, Carbide & Carbon Chemicals Co.-P., Unit of Union Carbide & Carbon Corp.

CARBITOL, solvent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.

CARBO-DUR, activated carbon, Permutit Co.

CARBONOT, insulators, General Electric Co.

CARBON-TET, synthetic cleaning fluid, E. I. du Pont de Nemours & Co., Inc.

CARBO SOUR, laundry chemical, Diamond Alkali Co.

CARBONOXIDE, fumigant, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.

CARCO, marking-machine ink, type cleaner, ink thinner, Carman & Co., Inc.

CARCO, press-head cleaner, Carman & Co., Inc.

CARCO, wire hangers, trouser guards, Carman & Co., Inc.

CARCODERM, hand lotion for drycleaners, Carman & Co., Inc.

CARCOFLEX, plasticizing agent for plastic or resin-treated fabrics, Carman & Co., Inc.

CARCOLENE, general spotter, Carman & Co., Inc.

CARCO SOURS, neutralizing agents, Carman & Co., Inc.

CARCOSUDS, rug shampoo, Carman & Co., Inc.

CARCOVAN, light truck body, Pacific Car & Foundry Co.

CARDOGRAPH, addressograph machine, Addressograph-Multigraph Corp.

CAREY, bathroom cabinets, Philip Carey Mfg. Co.

CAREYDUCT, asbestos cement pipe, Philip Carey Mfg. Co.

- CAREY'S SALT**, salt tablets, dispensers, Carey Salt Co.
- CAREY-SOTE**, asbestos cement board, Philip Carey Mfg. Co.
- CARLTONITE**, synthetic detergent laundry washing compound, Carlton Chemical Co., Inc.
- CARMAN**, indelible pen ink, Carman & Co., Inc.
- CARMANETS**, nylon nets, Carman & Co., Inc.
- CAR-NA-CRETE**, rubber floor enamel, Continental Car-Na-Var Corp.
- CAR-NA-LAC**, self-polishing heavy-duty floor wax, Continental Car-Na-Var Corp.
- CAR-NA-VAR**, upholstery and carpet cleaning machine, liquid spirit wax requiring buffing, Continental Car-Na-Var Corp.
- CAROUSEL**, automatic 10-washer counter-flow laundering unit, International Laundry Equipment Div., Kurt Orban Co., Inc.
- CAROVAN**, delivery trucks, Carovan Div., Universal Sales, Inc.
- CARRIER**, industrial heating, refrigerating systems, Carrier Corp.
- CARVEL**, nylon covering, press covers, Carman & Co., Inc.
- CARVER**, centrifugal pumps, Carver Pump Co.
- CASCADE**, mechanical unloading washer, laundry washers, automatic washing control, American Laundry Machinery Co.
- CASCADE**, nets, H. Kohnstamm & Co., Inc.
- CASH'S**, woven names, labels, markers, tape, J. J. Cash, Inc.
- CASH STANDARD**, valves, regulators, A. W. Cash Co.
- CAST-REFRACT**, refractory materials, Quigley Co., Inc.
- CATERPILLAR**, diesel engine, Caterpillar Tractor Co.
- CAU-FLAN**, flannel cotton pads, X. S. Smith, Inc.
- CAUSUL**, metal gate valves and cocks, Lanken-Brewer Co.
- CEGAR SHIELDS**, storage bags, Rassenfoss Bag Co., Inc.
- CEGLIN**, finish for textiles, Sylvania Industrial Corp.
- CELANESE**, dyes, American Aniline Products, Inc.
- CELA-SOL**, paint remover, National Cleaners Chemical Mfg. Co.
- CELANIT**, tints for acetate yarn, American Aniline Products, Inc.
- CELITE**, filter aids (diatomaceous silica), Johns-Manville
- CELLOSIZ**, sizing, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
- CELLOSOLVE**, solvent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
- CELOFORM**, spotter, Keystone Aniline & Chemical Co., Inc.
- CEMENTKOTE**, heavy duty oil base cement paint, Tropical Paint & Oil Co.
- CEN-TRA VAC**, centrifugal refrigeration compressor, Trane Co.
- CENTRIZ**, efficiency engineers, Centriz
- CENTURY**, motors, generators, Century Electric Co.
- CENTURY BRAND**, sodium perborate, Eaton Chemical & Dyestuff Co.
- CERBAK**, detergent, E. E. Houghton & Co.
- CERTI-CIDE**, demulsifying liquid, Certified Chemical & Equipment Co.
- CERTIFIED**, low-liter neutral soap flakes, Armour & Co.
- CERTIFIED SOLID**, neutral solid pack crutcher soap, Armour & Co.
- CERTI-FOAM**, upholstery cleaner, Certified Chemical & Equipment Co.
- CERT-LAYE**, non-rinse rug shampoo, Certified Chemical & Equipment Co.
- CETIC-N**, odorless liquid sour, Warco Laboratories
- CHACE**, automatic washer valves, Chace Valve Div., American Laundry Machinery Co.
- CHALLENGER**, all types fire extinguishers, American-La France-Foamite Corp.
- CHALLENGER**, stokers, Link-Belt Co.
- CHAMBERS**, laundry and drycleaning extractors, Chambers Extractor Co.
- CHAMP CLEANER**, fur cleaner, Nycco Products Co.
- CHAMPION**, automatic tying machine, cable cord, Thomaston Mills
- CHAMPION**, Monel press pad, Resilio Co.
- CHAMPION CASCADE**, laundry washer, American Laundry Machinery Co.
- CHANDLER**, pleating, darning, button-sewing machines, fluters, thread, Chandler Machine Co.
- CHASE**, brass and copper products, Chase Brass & Copper Co.
- CHAT**, detergent, General Aniline & Film Corp., Special Products Sales Div.
- CHATTILON**, scales, John Chatillon & Sons
- CHECKERS' BEST**, tag marking system, Waverly Specialty Co.
- CHEK-TAG**, drycleaning identification system, Best Forms Co.
- CHEMKLOS**, work clothing, Mine Safety Appliances Co.
- CHEM-O-FEEDER**, constant rate proportioning pump, Proportioners, Inc.
- CHEVCO**, belt cleaner, Samuel Chevin Co., Inc.
- CHEVROLET**, motor trucks, Chevrolet Motor Div., General Motors Corp.
- CHEX**, laundry mildewproofing agent, Cides Corp.
- CHEXIT**, unit system for production control, Carman & Co., Inc.
- CHIC**, sizing for wetcleaning, Patek & Co.
- CHICAGO**, laundry machinery, Chicago Dryer Co.
- CHICAGO**, pearl buttons, Chicago Pearl Button Co.
- CHICO**, alkali soap builder, Wyandotte Chemicals Corp.
- CHIEF**, rug equipment, Chief Mfg. Co.
- CHIEF**, truck tires, Mohawk Rubber Co.
- CHIEF COMMERCIAL**, truck tires, Mohawk Rubber Co.
- CHIEF 20**, handkerchief ironer, Huebsch Div., American Laundry Machinery Co.
- CHIEF 25**, handkerchief, napkin ironer, Huebsch Div., American Laundry Machinery Co.
- CHIFFON**, miniature bar soap, Armour & Co.
- CHINALINE**, quick-drying enamel, Barreled Sunlight Paint Co.
- CHLORASOL**, fumigant, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
- CHLORESCO**, bleach (calcium hypochlorite), Cowles Chemical Co.
- CHLORETS**, chlorine tablets, Gliss'n Products Co.
- CHLOREX**, chlorinated solvent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
- CHLOR-O-CEL**, sweetener, filter powder, Johns-Manville
- CHLOR-O-FEEDER**, constant rate proportioning pump, Proportioners, Inc.
- CHLOROWAX 40**, liquid chlorinated paraffin, Diamond Alkali Co.
- CHLOROWAX 70**, resinous chlorinated paraffin, Diamond Alkali Co.
- CHOCTAW**, soap builder, Wyandotte Chemicals Corp.
- CHROMALOX**, electric heating equipment, Edwin L. Wiegand Co.
- CHROME CONCRETE**, chrome base refractory concrete, Mexican Refractories Co.
- CHROMIX**, refractory material, Quigley Co., Inc.
- CHROMOTEX**, detergent for rug cleaning in the plant, Enduris Chemicals, Inc.
- CHRISTY-A-TEMP**, furnaces, boilers, heaters, stokers, Chrysler Corp., Airtemp Div.
- CIDEX**, mildew preventative, deodorant, mothproofing agent, Cides Corp.
- CIMATATE**, printed tags and marking tags, Cincinnati Marking Tag & Supply Mfg. Co.
- CIMCO**, cement applied to inner surface of tank, Ford Tank Maintenance Co.
- CINCH**, prespotter, Caled Products Co., Inc.
- CINO**, carpet, laundry and drycleaning tags, black marking ink, Fleischer Mills, Inc.
- CISSELL**, cuff brusher, boards, driers, irons, getting, boards and guns, W. M. Cissell Mfg. Co., Inc.
- CLAIM-SAYER**, F.W.I. bundle separators, F. H. Bonn Co.
- CLANESSE**, cover cloth, Lewis National Corp.
- CLARCO**, unit heaters, Clargra Fan Co.
- CLARK**, fluid controls, Clark Mfg. Co.
- CLARK 60**, traps, valves, Clark Mfg. Co.
- CLAYBRITE**, machine clay coated paperboard, Cornell Paperboard Products Co.
- CLAYTON**, steam generators, feed-water pump, water heater, Clayton Mfg. Co.
- CLEANCUT**, pinkers, Maxant Button & Supply Co., Inc.
- CLEANERETTE**, automatic drycleaning machine, E. L. Chrisman Co.
- CLEANSER 600**, alkali cleanser, Solvay Process Div., Allied Chemical & Dye Corp.
- CLEANSERTAG**, marking tag material, Hollingsworth & Vose Co.
- CLEANSER TAGS**, tags for cleaners, Sidney A. March
- CLEARO**, stripper, Carman & Co., Inc.
- CLEARSIZE**, laundry starch, National Starch Products, Inc.
- CLEARTEX**, laundry starch, National Starch Products, Inc.
- CLEAR-VIEW**, boxes, bags and cellophane products, Clear View Packaging Co.
- CLEAVER-BROOKS**, steam generators, boilers, Cleaver-Brooks Co.
- CLENA-FORM NO. 2**, cleaner, polisher and lubricator for shirt units and body presses, Colgate Chemical Co.
- CLEVELAND**, rug and laundry machinery, Cleveland Rug Cleaning Machinery Co.
- CLEVE-O-CEMENT**, under-floor covering and resurfacing material, Midland Paint & Varnish Co.
- CLIMAX**, overall marking tags, Risdin Mfg. Co.
- CLINTON**, rug sizing, Clinton Foods Inc.
- CLINTON 3L**, thick boiling starch, Clinton Foods Inc.
- CLIP-A-TAPE**, gummed-tape dispenser, Ideal Stencil Machine Co.
- CLIPPER**, belt-lacing equipment, belt cutters and fasteners, Clipper Belt Lacing Co.
- CLIPPER**, wire lacing, belt lacers, belt cutters, I. B. Williams & Sons
- CLIX**, belt organizer, Time Savers, Inc.
- CLOMAK**, balanced detergent, Wyandotte Chemicals Corp.
- CLOPAT**, hanger protectors, dress guards, Clopat Corp.
- CLOPAT SANITEK**, garment storage bags, Clopat Corp.
- CLOR**, bleach, Pennsylvania Salt Mfg. Co.
- CLORAFIN**, chlorinated paraffin, Hercules Powder Co.
- CLOROSREEN**, drycleaning detergent, Riverside Mfg. Co.
- COAGULATOR**, rapid combination mixing chamber and setting basin, Hungerford & Terry, Inc.
- COATES**, electric boiler, Coates Electric Mfg. Co.
- COATRITE**, industrial coating, Rathbun Co.
- COAT-SEAL**, interior wall coating, Steelcote Mfg. Co.
- CO-AXIAL-FLO**, filter, Zephyr Laundry Machinery Co.
- COBEKO**, leather belting, cement, Cornell Belting Co.
- COCALENE**, liquid wetcleaning soap, Wonder Wash Corp.
- COCHERO**, flat leather belting, belt cement, I. B. Williams & Sons
- COCHIN SEB**, solvent and synthetic wetting agent, E. F. Drew & Co., Inc.
- COCHRANE**, steam power plant equipment, Cochran Corp.
- COCOANUT OIL**, paste soap, National Cleaners Chemical Mfg. Co.
- COCOGEL**, wetcleaning soap, E. F. Drew & Co., Inc.
- COCOSOP**, coconut oil, wetcleaning, paste soap, Package Chemical Co., Inc.
- COLCOT**, press padding flannel, Southern Mills, Inc.
- COLDSPRAY**, built soap for cool-water washing, Beach Soap Co.
- COLDWATER NAPTEX**, laundry soap, E. F. Drew & Co., Inc.
- COLD WATER OZONITE**, cold-water soap, Procter & Gamble Distributing Co.
- COLD WATER SOL SUDS**, soap, Lewis National Corp.
- COLGATE FORMULA 10**, 20, 25, 33, 40, neutral soap flakes and granulated built soap, Colgate-Palmolive-Peet Co.
- COLGATE KWIKSOLVE**, laundry soap, Colgate-Palmolive-Peet Co.
- COLLAIRIGHT**, collar ironer, shirt-folding machine, Key-Tag Checking System Co.
- COLLA-RITES**, collar supports, M. H. Gronauer Co.
- COLONIAL**, blue, Superior Products Co.
- COLOR BRITE**, soap, Lewis National Corp.
- COLORTEX**, stripping agent, Stauffer Chemical Co.
- COLORFINE**, sour, H. Kohnstamm & Co., Inc.
- COLORFLEX**, leather dyes, Eaton Chemical & Dyestuff Co.
- COLORGO**, powdered stripping agent, A. L. Wilson Chemical Co.
- COLORLUME**, drycleaning soap, Fry Bros. Co.
- COLORSOUT**, powder color stripper, Washine National Sales, Inc.
- COLOR SPARK**, break powders, Wyandotte Chemicals Corp.
- COLORSUDDS**, low-temperature soap, H. Kohnstamm & Co., Inc.
- COLORTOP**, plug fuses, Trico Fuse Mfg. Co.
- COLORZOUN**, sour, Washine National Sales, Inc.
- COLOVOLT**, fluorescent lamps, fixtures, General Luminescent Corp.
- COLSON**, wheels, casters, trucks, Colson Corp.
- COLTEX**, cold water soap, medium pH, E. F. Drew & Co., Inc.
- COLUMBIA**, activated carbon, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
- COLUMBIA**, blindstitch machines, Columbia Sewing Machine Corp.
- COLUMBIA**, boilers, Columbia Boiler Co.
- COLUMBIA**, detergent chemicals, Columbia Southern Chemical Corp.
- COLUMBIA**, drycleaning extractors, used and rebuilt machinery, puff irons, valves, Columbia Laundry Machinery Co.
- COLUMBIA**, drycleaning unit, solvent saver, Columbia Appliance Corp.
- COLUMBIA**, rewinding, inweaving needles, Columbia Needlework Supply Co., Gearhart Runner Knitter Co.
- COLUMBIA BF**, puff iron, Columbia Laundry Machinery Co.
- COLUMBIA GEM**, extractor, Columbia Laundry Machinery Co.
- COMBINATION OFFSET**, silk finishing press, Excelsior Machinery Co.
- COMBINER CLIPS**, assembling clips, Larton Products Co., Inc.
- COMBINETS**, laundry nets and fabrics, Davis Mills Inc.
- COMBINO**, ironer padding nets, Tingle, Brown & Co.
- COMBO**, combination checking desk, bag storage unit and garment bagger, Rodin Machinery Co., Div. Rodin Bros.
- COMBUSTIONEER**, automatic coal burner, humidifiers, Steel Products Engineering Co.
- COMBY-R**, laundry nets, Davis Mills Inc.
- COMET**, electric hoist, Chisholm-Moore Hoist Corp.
- COMET**, extractors, Hammond Laundry-Cleaning Machinery Co.
- COMET**, washer, Henrici Laundry Machinery Co.
- COMMANDER**, steel framed platform hand trucks, Fairbanks Co.
- COMMERCIAL**, soap, Rome Soap Mfg. Co.
- COMPACT**, drycleaning machine, Ayr-Mor Machinery Co.
- COMPACT**, low-pressure boiler, Titusville Iron Works Co., Div. Struther Wells Corp.
- COMPAR**, safety gloves, aprons, gasket material, Resistoflex Corp.

COMPLETE, laundry soaps, Fry Bros. Co.
COMFO, fiber marking tags, Fincher Mills, Inc.
COMPO, marking tags, U. S. Marking Tag Co.
COMPOSITION 33, 91, soap builders, Turco Products, Inc.
COMPOUND 40, general formula spotter, Keystone Aniline & Chemical Co., Inc.
CONCO, stokers, Conco Engineering Works, Div. H. D. Conkey & Co.
CONDOR, hose, belting, rolls, Raybestos-Manhattan, Inc.
CONDO-VAC, return-line vacuum pumps for heating systems, Chicago Pump Co.
CON-D-TEX, mothproofing agent, Research Laboratories Corp.
CONNERSVILLE-CHIEF, rug and carpet cleaning equipment, Chief Mfg. Co.
CONSOLIDATED, safety and relief valves, Manning, Maxwell & Moore, Inc.
CONTINENTAL, steam generators, Boiler Engineering & Supply Co.
CONTINENTAL 18, self-polishing heavy-duty liquid floor wax, Continental Car-Na-Vap Corp.
CONTINUOUS FLOW, washer, Bill Glover, Inc.
CONTIN-U-RAIL, speed rail, White Machine Co.
CONVAIR, converts foot press into air-operated press, New York Pressing Machinery Sales, Inc.
COOK EXTRACTETTE, pony extractor, Cook Machinery Sales Co.
COOK WASHETTE, open-end washers, Cook Machinery Sales Co.
COOLAIR, fans, ventilating systems, American Coalair Corp.
COOLIDGE, pad savers, Ink-O Products Co.
COOLIDGE GRID, press pad, John E. Coolidge Co.
COOPER, pressing stands, bucks, tables, iron carriers, H. P. Cooper & Co.
COOPER-BESSEMER, compressors, diesel and gas engines, Cooper-Bessemer Corp.
COORDINATED PROCESS CONTROL, automatic control, Bristol Co.
COPALITE, interior varnish, Barreled Sunlight Paint Co.
COPES, high and low alarms, controls, regulators, governors, valves, Northern Equipment Div., Continental Foundry & Machine Co.
COPR-TUBE, copper tube fittings, Dresser Mfg. Div., Dresser Industries, Inc.
CORONET, 72-pound drycleaning unit, Dettrex Corp.
CORUFLEX, expansion joint, American District Steam Co., Inc.
COTTAGE, steel direct-fired water heater, oil-gas, Kewanee Boiler Corp.
COTTONBLOSSOM, laundry textiles, Southern Mills, Inc.
COUNTERBOY, carton and package taping machine, Better Packages, Inc.
COUNTERFLOW, automatic 10-washer counter-flow laundering unit, International Laundry Equipment Div., Kurt Urban Co., Inc.
COV-EZ, garment hanger shields, Larton Products Co., Inc.
COVERDUX, ironer covering, Tingue, Brown & Co.
COX OF ENGLAND, manual steam-water mixers, O'Brien Steam Specialties Co., Inc.
CRAMER, timers, R. W. Cramer & Co., Inc.
CRANE, plumbing fixtures, Crane Co.
CRAVENETTE, water repellent, Cravenette Co., U. S. A.
CREAM FINISH, starch lubricant, Lewis National Corp.
CRESCENT, belt fasteners, plates, rivets, rivet extractors, Crescent Fastener Co.
CRESCENT, laundry chemical specialty items, Hough Chemical Co., Inc., Crescent Div.
CRESCENT, try-cocks, Wright-Austin Co.
CRESTEX, sour, Hough Chemical Co., Inc., Crescent Div.
CRISACKS, clothes racks, E. L. Chrisman Co., Inc.
CROSBY, gauges, valves, Crosby Steam Gauge & Valve Co.
CROWN, electric-steam irons, steam generators, electric irons, Crown Mfg. Co.
CROWN, laundry nets, Davis Mills Inc.
CRUCIBLE, stainless steel laundry equipment, Crucible Steel Co. of America
CRUSADER, nets, cover cloth, double-face flannel, cover cloth, Egan Cotton Mills
CRYSTALITE, fluorescent lighting, Crystalite Co., Inc.
CRYSTAL VICTOR, laundry starch, Kever Starch Co.
CRYSTANET, sodium metasilicate, Cowles Chemical Co.
CUB JR., steam trap, Wright-Austin Co.
CUFF BRUSHER, rotary cuff cleaner, Excelsior Machinery Co.
CUFF TACKER, sewing machine, Chandler Machine Co.
CULLIGAN, water softening and conditioning equipment, Culligan Zeolite Co.
CUMMINGS-LANDAU, laundry equipment, Cummings-Landau Laundry Machinery Co., Inc.
CURRY, feed ribbons, I. W. Curry Co.
CUSTOM, electric steam generators, Custom Engineering Co.
CUSTOM, shoulder finisher and shaper, Hopkins Equipment Co.
CUTLER-HAMMER, electrical equipment, motor control, Cutler-Hammer, Inc.
CUSTOM-AIR, large building heating and cooling equipment, Trane Co.

CYANEGG, sodium cyanide, E. I. du Pont de Nemours & Co., Inc.
CYCLO, heavy presspotter, R. R. Street & Co., Inc.
CYCLONE, exhaust head, Wright-Austin Co.
CYCLONE, hand power hoist, Chisholm-Moore Hoist Corp.
CYCLONE, washer, Henrici Laundry Machinery Co.
CYCLONE CONVEYORS, pneumatic conveyors, Eastern Cyclone Conveyor System, Inc.
CYCLOPS, needle bearing, Roller Bearing Co. of America
CYCLOTHERM STEAM GENERATORS, package type boiler, automatic oil or gas fired, Cyclotherm Div., U. S. Radiator Corp.
CYLON, wetcleaning detergent, Patek & Co.

D

DSKL, concentrated liquid stripper and reducing agent, Carman & Co., Inc.
D-TEX, chemicals, cleaners, Davis-Weil Mfg. Co.
DAHLBERG, speed-rail conveyors, Dahlberg Machinery Co.
DAILY DELIVERY, marking tags, Pittsburgh Tag Co.
DAINTEX, wetting agent, Hercules Powder Co.
DAMASCITE, ferrous-base machine parts, Amplex Div., Chrysler Corp.
DANALONE, joint compound, Quigley Co., Inc.
DAMP-TEX, enamel, Steelco Mfg. Co.
DANA, dyeing process for garments, leather and commercial dye works
DANDUX, canvas baskets, hampers, bags, trucks, C. R. Daniels, Inc.
DAPEX, mothproofing compound, Davison Chemical Co.
DARCO, activated carbon, Darco Dept. (Atlas Powder Co.)
DARNELL, wheels, casters, Darnell Corp.
DATERETTE, dating machine, American Numbering Machine Co.
DAVIS, controls, regulators, valves, Davis Regulator Co.
DAVIS, first-aid and emergency equipment, Davis Emergency Equipment Co., Inc.
DAVIS, press plates, flexible metal hose, Davis Specialties, Inc.
DAVIS, shirt unit, Prosperity Co., Inc.
DAVIS NETS, laundry nets, Davis Mills Inc.
DAVIS OVERALL TAG, brass permanent marker, Davis Co.
DAVIS TAG, permanent overall marker, Keyes-Davis Co.
DAVIS Z, laundry net, Davis Mills Inc.
DAVOTEX, leather cleaning and redyeing, C. O. Davis & Co.
D-CL, cleaning & dyeing Co.
DAY-SOL, chlorinated solvent drycleaning soap, Davies-Young Soap Co.
DE FLOTROL, adsorbent filter powder, Filtritol Corp.
DEAN HILL, centrifugal industrial power pumps, steam turbines, Dean Hill Pump Co.
DECAL, water softener, Washline National Sands, Inc.
DECALCOMANIA, truck lettering, pictorials, nametags, window signs and valances, Meyer-Cole Co., Inc.
DEEP ROCK, naphthas, petroleum solvents, Big Ben Petroleum Products Co.
DEFENDER, regulators, recording instruments, Defender Instrument & Regulator Co.
DEFFLOC, laundry detergent, Cowles Chemical Co.
DEHYDRATINE 2A, water repellent, A. C. Horn Co., Inc.
DELIBLE, dissolves indelibles, Warco Laboratories
DE-LIMER, lime solvent, E. F. Drew & Co., Inc.
DELIVER-ALL, delivery truck, Marmion-Herrington Co., Inc.
DELUXE string, Haron Milling Co.
DE LUXE, uniforms, Shane Uniform Co., Inc.
DE LUXE STRING, cord, Milwaukee Printed String Co.
DEMING, pumps, Deming Co.
DEMOTROL, mothproofing solution, Signal Chemical Mfg. Co.
DENOMINATOR, tabulating machines, Denominator Corp., Inc.
DEODOR, deodorant, Patek & Co.
DESOLU, break powder, Cowles Chemical Co.
DESTAINER, penetrating soap, A. L. Wilson Chemical Co.
D'ESTE, automatic regulating valves, strainers, etc., D'Este Div., Kaye & MacDonald, Inc.
DETECTO, scales, Detecto Scales, Inc.
DETECTO, detergent for use with chlorinated solvents, Riverside Mfg. Co.
DETEX, watchmen's clocks, Detex Watchclock Corp.
DETEX, drycleaning equipment, solvent still, Dettrex Corp.
DETROIT, belt lacers, belt cutters, Detroit Belt Lacer Co.
DETROIT, valves, W. M. Chace Co.
DEVISER SPEEDMASTER, water-repellent dip tank, Devere Co.

DEVILBISS, compressors, spray guns, hose, DeVilbiss Co.
DEXTER, valve reseating machine, Leavitt Machine Co.
D-FLOX, laundry detergent, Essential Chemicals Co.
DIAL, miniature bar soap, Armour & Co.
DIAL-O-TIME, laundry formula timer, Norman Control Co.
DIAMO, stripper, stain remover, Lewis National Corp.
DIAMOND, ball, revolving and swing joints, Diamond Metal Products Co.
DIAMOND, chains, couplings, Diamond Chain Co., Inc.
DIAMOND, laundry chemicals, Diamond Alkali Co.
DIAMOND, water-treatment compounds, Oakkash Filter & Softener Co.
DIAMOND BLUE, laundry bluing, Diamond Alkali Co.
DIAMOND DRYCLEANER, chlorinated cleaning solvent, Diamond Alkali Co.
DIAMOND O & W COMPOUND, detergent, Diamond Alkali Co.
DIAMOND T, motor trucks, Diamond T Motor Car Co.
DI-AQUA, anionic wetting agent, Diamond Alkali Co.
DIASAN, diaper sanitizers, H. Kohnstamm & Co., Inc.
DIASOCEL, for dyeing Celanese and acetate silks, American Aniline Products, Inc.
DIATZYME, enzymic digester, Jacques Wolf & Co.
DICALITE, anti-static filter powder, Dicalite Div., Great Lakes Carbon Corp.
DICALITE 7, filter powder, Dicalite Div., Great Lakes Carbon Corp.
DICALITE SPEEDPLUS, straight diatomaceous filter powder, Dicalite Div., Great Lakes Carbon Corp.
DICALITE SWEETEX, sweetener, filter powder, Dicalite Div., Great Lakes Carbon Corp.
DEIHL, electric motors, fans, Diehl Manufacturing Co., Div. Singer Mfg. Co.
DI/EN, digester, John F. Lynch Co.
DIGESTALL, digestive agents, Package Chemical Co., Inc.
DIGESTENE, enzymatic digestive agent, Starr Soap & Chemical Co., Inc.
DIGESTIT, enzymic digester, Riverside Mfg. Co.
DIGEST-O-MATIC, bath tank, Hopkins Equipment Co.
DIOXY, drycleaning spotters, chemicals, Preston T. Rhodes
DIPMASTER, water-repellent dip tank, Devere Co.
DIP-O-MATIC, water-repellent dip tank, Hopkins Equipment Co.
DISAPPEARO, spotting compound, Fry Bros. Co.
DISCOVERY, handkerchief buffer, Huebsch Div., American Laundry Machinery Co.
DISPERSO, silk and wool drycleaning soap, Spix Products Co.
DIS-PER-SOL, break powder, Thompson-Hayward Chemical Co.
DISPLAY-IT, shirt display cases, Time Savers, Inc.
DISTILLENE, drycleaning soap, Keystone Aniline & Chemical Co., Inc.
DIVCO, delivery vehicles, Divco Corp.
DIXE-HOLD, hangers, Marion Mfg. Co.
DIXIE, aprons, Minnesota Chemical Co.
DIXIE, laundry nets, Southern Mills, Inc.
DIXIE, tags, tapes, trouser guards, collar supports, Dixie Hanger Co.
DIXO, detergents, drycleaning soaps, grease oil and paint removers, wetcleaning soap, Dixo Co.
DIXON STEAM KING, Scotch marine boiler, Dixon Boiler Works
DIXON WATERWALL, Scotch marine boiler, Dixon Boiler Works
DIZOLV-IT, oil remover, Kliegmans Bros., Inc.
DOBBY, mothproofing concentrate, Jay-Dew, Inc., Mfg. Chemists
DOCTOR BOILER, boiler water treatment compound, Doctor Boiler, Inc.
DODGE JOB-RATED TRUCKS, motor trucks, Dodge Truck, Chrysler Corp.
DOG TEX, treatment for cat and dog stains, Hild Floor Machine Co.
DORAN, hat machinery, Hatters Supply House, Inc.
DOUBLE CHECK, zeolite water softener, Elgin Softener Corp.
DOUBLE DUTY SOUR, sour and blue combination, Diamond Alkali Co.
DOUBLE-VALVE, blanket brusher, American Laundry Machinery Co.
DOUBLEWEAR, apron duck, cover cloth, nets, Lewis National Corp.
DOUGLAS, corn starch, thin boiling starch, Penick & Ford Ltd., Inc.
DOVER DYPERCAN, deodorized diaper container, Dover Stamping Co.
DOWCLEN, synthetic cleaning solvent, Dow Chemical Co.
DOWFUME, fumigant, Dow Chemical Co.
DOW-PEA, synthetic solvent, perchlorethylene, Dow Chemical Co.
DRAIN-DRY, cellar drainers, Yeomans Bros. Co.
DRAIN PEP, drain pipe solvent, Radiator Specialty Co.
DRAINTROL, condensation drainage device, Fred H. Schaub Engineering Co., Inc.
DRAYO COUNTERFLO, heater, Dravo Corp.

- DRAX**, water repellents, S. C. Johnson & Sons, Inc.
- DRES'N'SPORT**, dress and sport shirt folding machine, C. H. Bishop Co.
- DRESSER**, clamps, couplings, fittings, Dresser Mfg. Div., Dresser Industries, Inc.
- DRESSMASTER**, steam-air garment finisher, Hopkins Equipment Co.
- DREST**, paste type leather finisher, Caled Products Co., Inc.
- DREW**, ironer oil, E. F. Drew & Co., Inc.
- DREW 90 PLUS POWDER**, soap plus medium pH alkali builder and water conditioner, E. F. Drew & Co., Inc.
- DREX-KLEEN**, carbon tetrachloride solvent, Dextrex Corp.
- DRI-BORD**, steam-heated press boards, Kisco Boiler & Engineering Co.
- DRI-BRITE**, gloss, fur luster, Nycos Products Co.
- DRICO**, air cleaners, filters, separators, strainers, Drico Industrial Corp.
- DRIEX**, water-soluble water repellent, Keystone Aniline & Chemical Co., Inc.
- DRI-FLO DIPIT**, indelible laundry and dye-cleaning marking set, Dri-Flo Mfg. Co.
- DRI-FORM**, foam, and furniture shampoo, Crossland Mfg. Co., Inc.
- DRI-HAND**, dampener and moisture regulator, W. Steele & Co.
- DRI-KINSE**, dry-cleaners' sour, Johnson Chemical Industries, Inc.
- DRISAL**, shirt bands, Drisal Co.
- DRI-SHEEN**, alkaline detergent, Adco, Inc.
- DRI-SHEEN PROCESS**, charged system method of cleaning, Adco, Inc.
- DRISIZE**, synthetic resin sizing for use in petroleum solvent, Eaton Chemical & Dyestuff Co.
- DRI-STEAM**, filters, separators, strainers, valves, Drico Industrial Corp.
- DRISYN**, detergent cleaning soap, E. F. Drew & Co., Inc.
- DRI-TEX**, detergents, Spix Products Co.
- DRITHERM**, infra-red heat lamps, North American Electric Lamp Co.
- DRI-TOP**, ironing board, G. H. Bishop Co.
- DRI-TRI**, anhydrous trisodium, A. R. Maas Chemical Co., Div. Victor Chemical Works
- DRUCLOX**, powdered hypochlorite bleach, E. F. Drew & Co., Inc.
- DRUM MASTER**, fur cleaning drum, Walter Haertel Co.
- DRUMMOND**, soaps, oils, detergents, Standard Soap Co. of Camden
- DRUSOAP H**, high-titer neutral soap, E. F. Drew & Co., Inc.
- DRUSOAP P**, high-titer 98% neutral soap, E. F. Drew & Co., Inc.
- DRUZOL**, heavy-duty detergent, E. F. Drew & Co., Inc.
- DRY BRIGHT**, liquid wax for floors, Riverside Chemical Co.
- DRY CHEMICAL**, fire extinguishers, American-La France-Foamite Corp.
- DRYCLEAN**, spot remover, E. I. du Pont de Nemours & Co., Inc.
- DRYCO**, spotting units, finishing equipment and steam condensers, Dryco Corp.
- DRYCONATIC**, steam-electric iron, Dryco Corp.
- DRYCON-CARCO**, intensified dye-cleaning detergent, Carman & Co., Inc.
- DRY MASTER**, clothes tumbler, National Dryer Mfg. Co.
- DRYMASTER**, drying cabinets, Hopkins Equipment Co.
- DRY-O-MATIC**, signal and alarm control for tumblers, Rosenthal Mfg. Co.
- DRY-O-WET**, spot remover, Slater-Robbins Co., Inc.
- DRYSET**, vacuum systems, Lamson Corp., Blower Div.
- DRY-SOPE**, dye-cleaning soap, Murphy Sales Co.
- DUAL**, steam traps, American District Steam Co., Inc.
- DUALCRAFT**, press pads, Padcraft Corp.
- DUAL-DUTY TAG-O-LETRIC**, tag-marking and attaching machine, Textile Marking Machine Co., Inc.
- DUBLECOTE MULTI-SHINGLES**, asphalt roofing shingles, Barrett Div., Allied Chemical & Dye Corp.
- DUBLIFE**, replacements for collars, cuffs, neckbands and trouser pockets, Dublife Collar & Co., Inc.
- DUFFEL**, laundry nets, Southern Mills, Inc.
- DUKE**, trouser guards, suit, dress and drape hangers, Memphis Hanger Co. and Pittsburgh Hanger Co.
- DULUX**, finishes, E. I. du Pont de Nemours & Co., Inc.
- DUNAWAY**, spot removers, digesters, H. D. Dunaway & Co.
- DUO**, ironer, Zephyr Laundry Machinery Co.
- DUODEX**, carpet antiseptic, Carman & Co., Inc.
- DUO-TEX CONC**, dye-cleaning soap, Keystone Aniline & Chemical Co., Inc.
- DUPLEX**, collar supports, Time Savers, Inc.
- DUPLEX**, vacuum cleaner, General Electric Co.
- DUPLEX-SLEEVE**, expansion joint, American District Steam Co., Inc.
- DURABILT**, automatic folding electric iron, Waring Products Corp.
- DURABILT**, laundry and dye-cleaning washer, Gardner Machinery Corp.
- DURABLE**, fiber boxes and shipping cases, Durable Fibre Sample Case Co.
- DURABLE**, wire preshrink for velvet and nap fabric materials, American Freshboard Co.
- DURACAL**, covers and padding combinations, Fatic & Co.
- DURAFLEX**, stokers, Canton Stoker Corp.
- DURO**, blow-off valve, Lunkenheimer Co.
- DURO**, press covers, R. Lally Co.
- DUROL**, fiber sheet packing, Raybestos-Manhattan, Inc.
- DUROTEX**, press covers, R. Lally Co.
- DUST-PROOF**, sweeping compound for floors, Everette Chemical Co.
- DURLOIL**, fiber sheet packing, Raybestos-Manhattan, Inc.
- DUST STOP**, air filters, Owens-Corning Fiberglass Corp.
- DUTCH-MILL**, diaper and diaper can decolorators, Van Chemical Co.
- DU-TEX**, stain remover, Warco Laboratories
- DUTTON**, boilers, pumps, Hapman-Dutton Co., Dutton Boiler Div.
- DUX COTE**, Dye-stuff Co.
- DUX**, water repellent, Eaton Chemical & Dyestuff Co.
- DUX-IT**, solvent-soluble water repellent, Keystone Aniline & Chemical Co., Inc.
- DWYER**, gauges, indicators, meters, F. W. Dwyer Mfg. Co.
- DYCO-SIZE**, garment retexturing compound, Davies-Young Soap Co.
- DYDROSITE**, stripping agent, Nu-Pro Mfg. Co.
- DYE**, color, put for "spot dyeing," Caled Products Co., Inc.
- DYNA-MATIC**, open-end washer, Hammond Laundry-Cleaning Machinery Co.
- DYNANO DUMPER**, unloading washer, Miller Laundry Machinery Co.
- DYNASOPE**, concentrate, dye-cleaning filter soap with antiseptic and mothproofing, A. F. Wolke
- DY-100**, liquid dye-cleaning soap, Davies-Young Soap Co.
- DYPERCAN**, sanitary diaper cans, Dover Stamp-DYSCO, wetcleaning silk and wool soap, Davies-Young Soap Co.
- DYSOLVO**, soap, Davies-Young Soap Co.
- DY-SULPH**, synthetic wetcleaner, Davies-Young Soap Co.
- DYTEX RUSTERASER**, rust remover, Dytex Chemical Co.

E

- EFTT**, electric power fork truck, Lewis Shepard Products, Inc.
- EFTON**, woven cotton belting, Victor Balata & Textile Belting Co.
- EASY-ON**, wood strut hanger, Nagel Coat Hanger Co.
- EASY PRESS**, manually operated dye-cleaning press, Goldman Pressing Machine Corp.
- ECCO**, blues, ironer oil, spot removers, repellents, prespotters, tints, soaps, Eaton Chemical & Dyestuff Co.
- ECCODUX**, water repellent, Eaton Chemical & Dyestuff Co.
- ECCOFORM**, spot remover, Eaton Chemical & Dyestuff Co.
- ECCO KORO**, odor neutralizer, Eaton Chemical & Dyestuff Co.
- ECCOSIZE**, textile finish, Eaton Chemical & Dyestuff Co.
- ECLIPSE PIONEER**, flexible metal hose, Eclipse Pioneer Div., Bendix Aviation Corp.
- ECO**, hand cream, Davis Emergency Equipment Co., Inc.
- ECON**, watchmen's clocks, Detex Watchclock Corp.
- ECONO**, dye-cleaning soap, Package Chemical Co., Inc.
- ECONO**, sour, Diamond Alkali Co.
- ECONO**, synthetic solvent dye-cleaning unit, Vic Cleaning Machine Co.
- ECONO-CAL**, dye-cleaning detergents, Caled Products Co., Inc.
- ECONOFED**, boiler feed pump and condensate return system, Hapman-Dutton Corp., Dutton Boiler Div.
- ECONOMASTER**, boiler, Hapman-Dutton Co., Dutton Boiler Div.
- ECONO-MATIC**, dye-cleaning unit, Prosperity Co., Inc.
- ECONOMIC**, boilers, Erie City Iron Works
- ECONOMIST**, boiler, Hapman-Dutton Co., Dutton Boiler Div.
- ECONOMITE REGISTERS**, autographic registers, Autographic Register Co.
- ECONOMIZER**, boiler, Hapman-Dutton Co., Dutton Boiler Div.
- ECONO MOISTLESS**, paper bands, Economy Tablet & Paper Co.
- ECONOMY**, dryer-cleaning's bag, Diem & Wing Paper Co.
- ECONOMY**, hanger bar covers, Phoenix Products Co.
- ECONOMY**, hanger forming machine, Economy Hanger Machine & Equipment Co.
- ECONOMY**, marking pins, Keyes-Davis Co.
- ECONOMY**, sour, Superior Products Co.
- ECONOMY**, tumblers, dye-cleaning units, U. S. Hoffman Machinery Corp.
- ECONOMY MODEL PARIS**, steam-air garment finisher, Garment Finishing Equipment Corp.
- ECONO-PAK**, small order register, Econo-Pak Register Co.
- ECONO-SCOOP**, steel weighing hand scoop, Blenco Co.
- ECONOTHERM**, steam boilers, Hapman-Dutton Co., Dutton Boiler Div.
- ECON-O-VEYOR**, laundry conveyors, Shuler Conveyors, Inc.
- ECON-O-ZYME**, digestive agents, A. Goodman & Co.
- EGAN**, ironer and press padding, feed ribbons, Egan Cotton Mills
- EGRY ELITE**, register, business system, Egr Register Co.
- ELB**, marking ink, liquid laundry blue, Eaton Chemical & Dyestuff Co.
- ELB**, strong soap formula, R. B. Street & Co., Inc.
- ELAINE**, red oil (oleic acid), Emery Industries, Inc.
- ELASTIGUM**, roof cement, roof coating, Barrett Div., Allied Chemical & Dye Corp.
- ELCCO**, garment press, steam puffer, spotting and finishing machine, E. L. Chrisman Co., Inc.
- ELCONITE**, standard greensand zeolite, Elgin Softener Corp.
- ELDURITE**, synthetic zeolite, Elgin Softener Corp.
- ELECTRO**, water conditioner, Stomac Engineering Co., Inc.
- ELECTROCLENE**, dye-cleaning washers, Troy Laundry Machinery Div., American Machine & Metals, Inc.
- ELECTROFLUID**, motorized hydraulic drive, Link-Belt Co.
- ELECTRO LIFT HOISTS**, hoists, Electro Lift, Inc.
- ELECTROMANUAL**, washer, Troy Laundry Machinery Div., American Machine & Metals, Inc.
- ELECTROMATIC**, washer, Troy Laundry Machinery Div., American Machine & Metals, Inc.
- ELECTRO-MEND**, mending machines and tabs, Simmons Machine Co.
- ELECTRO NEUTRALIZER**, water-conditioning apparatus for steam boilers, Electro Chemical Engineering Co., Inc.
- ELECTRUNITE**, stainless steel tubing, Republic Steel Corp.
- ELGIN**, water softening and conditioning equipment and chemicals, water filters, Elgin Softener Corp.
- ELITE**, ironer covercloth, Tingle, Brown & Co.
- ELITE TRU-PAK**, autographic register, Egr Register Co.
- ELLIS**, laundry machinery, Ellis Drier Co.
- ELMO**, stripper, A. L. Wilson Chemical Co.
- ELNA**, sewing, mending machine, Mark-O-Corp.
- EMERALD**, felt, flannel, Pittsburgh Waterproof Co.
- EMERSOL**, stearic acid, Emery Industries, Inc.
- EMPIRE**, firebrick, A. P. Green Fire Brick Co.
- EMPIRE**, steam traps, American District Steam Co., Inc.
- EMPRENE**, O.D., concentrate for petroleum dye-cleaning, Wonder Wash Corp.
- EMPRENE WET SIZE**, resizer for wetcleaned garments, Wonder Wash Corp.
- EMULSIVE**, wheat starch, Keefer Starch Co.
- ENCO**, gas-oil burners, baffles for boilers, Fuel Oil Feed Engineer Co.
- ENDOR**, steam tumbler, Hammond Laundry-Cleaning Machinery Co.
- ENDURO**, coil-spring press pad, Zeidler Mfg. Co.
- ENDURO**, laundry detergents, chemicals, Aurora Manufacturing Co.
- ENDURO**, stainless steel, Republic Steel Corp.
- ENERGETIC**, wetcleaning synthetic detergent, Armour & Co.
- ENGINAIR**, compressor, Westinghouse Air Brake Co., Industrial Products Div.
- ENZ-O-SAN**, powdered digester, Huntington Laboratories, Inc.
- ENZYMERSE**, enzymic digester, George E. Mead Co.
- ERAD-INK**, ink remover, A. L. Wilson Chemical Co.
- ERADOL**, color stripper, National Cleaners Chemical Mfg. Co.
- ERASINE**, ink remover, Lewis National Corp.
- ERIE CITY**, boilers, underfeed stokers, Erie City Iron Works
- ERIFON**, flame retardant, E. I. du Pont de Nemours & Co., Inc.
- ERMCO**, rug conveyor and equipment, American Laundry Machinery Co.
- ERMINE**, starch, Washine National Sands, Inc.
- ERUSTICATOR**, rust stain remover, Pennsylvania Salt Mfg. Co.
- ERUSTO**, spot and stain remover, dry and wet-cleaning soaps, laundry sour, Pennsylvania Salt Mfg. Co.
- ERUSTO-CETIC**, sour for wetcleaning, Pennsylvania Salt Mfg. Co.
- ERUSTO-CIDE**, laundry sour, Pennsylvania Salt Mfg. Co.
- ERUSTO DDT EMULSION**, insecticide, Pennsylvania Salt Mfg. Co.
- ERUSTO ENEREX**, dye-cleaning products, Pennsylvania Salt Mfg. Co.
- ERUSTOLIN**, laundry sour, Pennsylvania Salt Mfg. Co.
- ERUSTO LIQUID-BLUE**, laundry blue, Pennsylvania Salt Mfg. Co.
- ERUSTO-MAX**, laundry sour, Pennsylvania Salt Mfg. Co.
- ERUSTO-RAY**, laundry sour, Pennsylvania Salt Mfg. Co.
- ERUSTO SALTS**, laundry sour, Pennsylvania Salt Mfg. Co.
- ERUSTOSOL**, laundry sour, Pennsylvania Salt Mfg. Co.
- ESCO**, high pH soap builder, Cowles Chemical Co.
- ESCOFOS**, soap regenerator, Cowles Chemical Co.

- ESCOLITE**, medium pH soap builder, Cowles Chemical Co.
ESCOLLOID, medium pH soap builder, Cowles Chemical Co.
ESCOL 77, high pH soap builder, Cowles Chemical Co.
ESCOMO, liquid blue, Cowles Chemical Co.
ESCO-SAVON, hot-water soap (east of Rockies only), Cowles Chemical Co.
ESPECCO, solvent, starches, Superior Products Co.
ESSO BOND, air-setting, high-temperature cement, Ramtite Co.
ETERNIT, asbestos-cement sheets for roofs and sidewalls, Ruberoid Co.
ETHRO, rug and carpet shampoo, North Coast Chemical & Soap Works
ETERNUM, pitch base paint, Barrett Div., Allied Chemical & Dye Corp.
EULANS, mothproofing agents, General Dyestuff Corp.
EUREKA, belt dressing, Standard Oil Co.
EUREKA, marking pins, Keyes-Davis Co.
EUREKA, wetcleaning laundry powder, North Coast Chemical & Soap Works
EUVALPAK, valve packing, Edward Valves, Inc., Subsidiary Rockwell Mfg. Co.
EUVALTRUST, valve bushings, Edward Valves, Inc., Subsidiary Rockwell Mfg. Co.
EVERBURD, copper silicon alloy, American Brass Co., American Metal Hose Branch
EVERLASTIC, roofing, Barrett Div., Allied Chemical & Dye Corp.
EVERLASTING, valves, Everlasting Valve Co.
EVER-LITE, lighting fixtures, Ever-Lite Co.
EVER MOIST, dampening device, Time Savers, Inc.
EVER-MOIST, nylon containers, F. H. Bonn Co.
EVERREADY, hat and garment boxes, Automatic Paper Box Corp.
EVERWEAR, double-face padding, Tingle, Brown & Co.
EWART, detachable link belt chains, Link-Belt Co.
EWING PONY, wood pony laundry washer, R. Ewing & Sons, Inc.
EXACTO, pre-numbered marking tags, hanger racks, loop assembly hooks, clips, belt wheel, rack dividers, Perfection Products Co. & Identification, Inc.
EXCEL, paint and grease spotter, Murphy Sales Co.
EXCELAL, starch finish, Eaton Chemical & Dyestuff Co.
EXCELL-O, cellophane tying ribbon, Freyberg Bros.-Strauss, Inc.
EXCELSIOR, hatters' and steam spotting, finishing equipment, Excelsior Machinery Co.
EXHAUSTEAM, steam purifier, Morehead Manufacturing Co.
EXIDE, storage batteries, Electric Storage Battery Co.
EXIDUST, industrial vacuum cleaners, Lamson Corp., Blower Div.
EXPANDO, collar supports, Time Savers, Inc.
EXPLOSER, pneumatic sewage ejector, Yeomans Bros. Co.
EXPRESS-LINE, conveyors, B & G Machinery Co., Inc.
EXSIZET, starch-removing desizing agent, Pabst Sales Co.
EX-SOIL-O, drycleaning soap, Davies-Young Soap Co.
EXTRACTETTE, extractor, Cook Machinery Sales Co.
EXTRACTING WASHER, washing and extraction in one operation, Butler Mfg. Co.
EXTRA SOLUBLE COLIFORMEX, soaps, H. Kohnstamm & Co., Inc.
EXZYME, enzymic spotting agent, Pabst Sales Co.
E-Z IRON, finishing-board pads, Fullco Corp.
E-Z-OFF, metal cleaner, Boston Clip & Tag Co.
E-Z SQUEEZE, water spray gun, Dryco Corp.
EZY-KLEEN, drycleaning press, Prosperity Co., Inc.
EZY-KLEEN, strainers for pumps and pipelines, Blackmer Pump Co.
FABRIT, heat-sealing mending tape, Madison Products Co.
FABTEX, water repellent, Merion Products Co.
FAB-TEX, water repellent, Spiz Products Co.
FAIRBANKS, valves, trucks, casters, wheels, Fairbanks Co.
FAIRBANKS-MORSE, pumps, motors, engines, stokers, Fairbanks Morse & Co.
FAMILY WORK STARCH, laundry starch, Keever Starch Co.
FAMOUS 50, hand numbering machine, Roberts Numbering Machine Co.
FAN-PAC, packaged ventilation, DeBothezat Fans Div., American Machine & Metals, Inc.
FANTOM-FAST, invisible identification system, National Marking Machine Co.
FASSEL, prepotter, Package Chemical Co.
FASTEX, spot remover, Starr Soap & Chemical Co., Inc.
FASTOGENE, textile finishes and assistants, American Acme Products, Inc.
FEATHER, air compressor valves, Worthington Pump & Machinery Corp.
FED TEX, industrial wiping towels, Federal Textile Corp.
FELAN, durable water-repellent finish, E. I. du Pont de Nemours & Co., Inc.
FEND, protective hand cream, Mine Safety Appliances Co.
FENT-ONAMEL, labels, Fenton Label Co.
FERRA-FLOW, non-slip paint, American Abrasive Metals Co.
FERRERO, angle check and globe valves, Littenheimer Co.
FERRROSAND, iron-removal filters, Hungerford & Terry, Inc.
FERRONIX, non-slip flooring composition, American Abrasive Metals Co.
FIBERGLAS, spun glass yarn for fabrics and insulating, Owens-Corning Fiberglas Corp.
FIBERROLLS, for use with marking machines, Tangle Marking Machine Co., Inc.
FIELD, draft controls, Conco Engineering Works, Div. H. D. Conkey & Co.
FIELDEN, liquid level control instrument, Fielden Instrument Corp.
50-FOLD, concentrated drycleaning soap, National Cleaners Chemical Mfg. Co.
FILPRO, vacuum still, U. S. Hoffman Machinery Corp.
FILTERMASTER, solvent filter, Hopkins Equipment Co.
FILTER-SOL, liquid drycleaning soap, Davies-Young Soap Co.
FILTERSTILL, filters, Martin Equipment Co., Div. American Laundry Machinery Co.
FILTROL DC, adsorbent filter aid, Filtril Corp.
FILTROL, synthetic drycleaning soap, Slater-Robbins Co., Inc.
FILTROX, electronic filter, U. S. Hoffman Machinery Corp.
FILTROSAN, drycleaning soap, Stoddard solvent, Slater-Robbins Co., Inc.
FILT-R-OUT, liquid drycleaning soap, Calet Products Co., Inc.
FINISH 21, dye fixer, Apex Chemical Co., Inc.
FINNELL, starch reclaimers, Lewis National Corp.
FIREBOX, coal, oil, gas stokers, high and low pressure, Kewanee Boiler Corp.
FIRE-CHEX, roofing shingles, Philip Carey Mfg. Co.
FIRECRETE, refractory cement, Johns-Manville
FIREITE, asbestos furnace cement, Johns-Manville
FIREYE, safeguards, controls, Combustion Control Corp.
FIREFLY, asbestos pads, Firefly Asbestos Products Co.
FIRE GUARD, insulation, Philip Carey Mfg. Co.
FIRE GUN, fire extinguishers, American-La France-Foamite Corp.
FIT-ALL, sleeve forms, Davis Specialties, Inc.
FLAME PROOF WXW, flameproofing agent, Apex Chemical Co., Inc.
FLAMONEL, Monel press pads, Resillo Co.
FLAN-LESS, metal press pads, X. S. Smith, Inc.
FLASH-O-MATIC, marking machine, marking tags, Flash Fast Marker Co.
FLETCHER, extractor, Fletcher Works, Inc.
FLEXCO, belt fasteners, Flexible Steel Lacing Co.
FLEXFORM, garment shaper-drier, Tri-Pak Machinery Service, Inc.
FLEXIMATIC, linen folder, Troy Laundry Machinery Div., American Machine & Metals, Inc.
FLEXITE, rubber buckets, dippers, funnels, B. F. Goodrich Co.
FLEXOL, starch, Washine National Sands, Inc.
FLEXO DOF, plasticizer to soften hardened waterproof innerlinings, Eaton Chemical & Dyestuff Co.
FLEX V, belt fasteners, Flexible Steel Lacing Co.
FLINT CHIPS, neutral soaps, Armour & Co., Industrial Soap Div.
FLOATS OFF, liquid synthetic detergent, J. H. B. Co.
FLO-KLEAR, soap for charged systems, Pennsylvania Salt Mfg. Co.
FLOORKOTE, enamel, Tropical Paint & Oil Co.
FLOORMASTER, trucks, Lewis-Shepard Products, Inc.
FLOOR-SAN, floor cleaning compound, Huntington Laboratories, Inc.
FLOOR-VEYOR, permanent installation power belt conveyor, Rapids-Standard Co., Inc.
FLO-VEYOR, batch type pneumatic conveyor, Brady Conveyors Corp.
FLOWRATER, solvent meter for filters, Fischer & Porter Co.
FLUFFED EDGE, padding cotton, Pittsburgh Waterproof Co.
FLUTEX, fabric conditioner, textile softeners, National Textile Chemical Co.
FLUORUM, fluorescent fabric finish, Beach Soap Co.
FLUSH-KLEEN, sewage ejectors, Chicago Pump Co.
FLUTRON, ruffle ironer, Maxant Button & Supply Co.
FOAM-ASBESTOS, foam rubber laminated drycleaning pad, Gustin-Kramer Co.
FOAMITE, fire extinguishers, American-La France-Foamite Corp.
FOAMONEL, sponge press pads, Resillo Co.
FOAMSUDS, liquid coconut soap, E. F. Drew & Co., Inc.
FOLD-A-WAY, shirt baskets and trucks, Time Savers, Inc.
FOLD-KING, shirt-folding device, Time Savers, Inc.
FOLDMASTER, flatwork folder, American Laundry Machinery Co.
FOLDOMAT, portable small flatwork folding, stacking, counting machines, Pioneer Development Co.
FOLDRITE, flatwork folder, American Laundry Machinery Co.
FOLDRITE, shirt folding and finishing equipment, Time Savers, Inc.
FORCE-FLO, blast type conveyor with fan, Trane Co.
FOHD, gasoline trucks and engines, Ford Div., Ford Motor Co.
FORMANIL, aniline dyes, American Aniline Products, Inc.
FORMATIC, automatic shirt folder, American Laundry Machinery Co.
FORMATIC, shirt unit and presses, American Laundry Machinery Co.
FORM-A-TIME CONTROL, washer timer, Van Chemical Co.
FORMATROL CYCLE TIMER, automatic washer control, Prosperity Co., Inc.
FORM FIT, garment hangers, Pacific Coat Hanger Mfg. Co.
FORMFIT, shirt protectors, Sutherland Paper Co.
FORM-MASTER, payroll system, Todd Co., Inc.
FORM MASTER, portable forming machine, Walter Haertel Co.
FORM-RITE, collar shaper, Huebisch Div., American Laundry Machinery Co.
FORMULA CONTROLS, INC., formula control for washers, Formula Controls, Inc.
FORMULA E-23, concentrated detergent, Marshall Co.
FORMULA 177, synthetic soap powder, West Side Corp.
FORMULA S, built, powdered, low-titer soap, Swift & Co.
FORMULA 12, drycleaning soap, Package Chemical Co., Inc.
FORMULA W-51, ink remover, A. L. Wilson Chemical Co.
FORSE, presses, laundry and drycleaning equipment, Forse Equipment Corp.
FOSKLOID, chlorinated sodium phosphate, Westvac Chemical Div., Food Machinery & Chemical Corp.
FOSTER-STEPHENS, window posters, photo-truck-posters, sales promotion material, newspaper mats, Foster-Stephens, Inc.
FOUR-ACES, synthetic wetcleaner in powder form, National Cleaners Chemical Mfg. Co.
400, liquid drycleaner, Adco, Inc.
411, powdered synthetic detergent, Armour & Co.
FOUR STAR, wheat paste starch, Keever Starch Co.
422, built anionic synthetic detergent, Armour & Co.
FOXBORO, indicating, recording, controlling instruments, Foxboro Co.
FRACTO-CRETE, castable refractory, Ramtite Co.
FRANKLIN'S, cement treatment, cleaners, polishes, waxes, wood seal, Franklin Research Co.
FRATEX, cotton pads, covers and hannels for drycleaning presses, Franklin Textile Mills
FRE-BIR-PAC, cloth counter, automatic towel and diaper counters, Fre-Bir-Pac, Inc.
FREE-VANE, air-operated controller, Bristol Co.
FREEMONT, electric controller, Bristol Co.
FREEMONT, rubber floor tile mats, matting, Fremont Rubber Co.
FRESH-AIR MAKER, fans, blowers, Schweitzer-Commins Co.
FREUND, tickings, Freund, Freund & Co., Inc.
FRIGIDAIRE, air conditioners, Frigidaire Div., General Motors Corp.
FRINGE-IT, fringe cleaner, Certified Chemical & Equipment Co.
FRONTIER BRAND, specialties, Riverside Chemical Co., Inc.
FRONT-PROOF, pipe covering and blocks, Ruberoid Co.
FRUGAL, soap, Minnesota Chemical Co.
FPYBRO, black indelible marking ink, ironer oil, Fry Bros. Co.

FITE, dye dippers, E. B. Frye & Son.
FRY'S SPECIAL, clipper laced aprons, Fry Bros. Co.
F. S. RUBBER MARKERS, colored identification markers, Sherrin Co.
FUEL-SAVER, boilers, International Boiler Works Co.
FUL-FLO, laundry nets and fabrics, Davis Mills Inc.
FULTON, laundry nets, Southern Mills, Inc.
FULTON, small-horsepower steam boilers, Fulton Boiler Works, Inc.
FUME-FITE, acid resisting enamel, Tropical Paint & Oil Co.
FUMOL, mothproofing agent, Fumol Corp.
FUR-OIL, re-rolling and softening agent for furs and leathers, Package Chemical Co., Inc.
FUR-LASTIC, burned-fur softener, Harry Jay Treu, Inc.
FURMOST, chart for estimating repairs and remodeling of furs, Mammie Rothleder
FURNAS-CRETE, castable refractory, Mexico Refractories Co.
FUR-RAY, fur cleaner and reconditioner, Jay-Dee, Inc. Mfg. Chemists
FURTEX, fur finishing equipment, Furtek, Inc.
FVB-FEEDER, stokers, American Coal Burner Co.

G

GFIT, gas power fork truck, Lewis-Shepard Products, Inc.
G & G, liquid or powdered stripper, bleacher, G & G Chemical Co.
GOP, grease, oil and paint remover, Eaton Chemical and Dyestuff Co.
GABRIEL, boilers, heat exchangers, pressure tanks, Gabriel Boiler & Fabrication Co.
GALIC, safety pins, A. Goodman & Co.
GALVANUM, for galvanized iron, Vita-Var Corp.
GARCO, hangers, wire trouser guards, collar supports, Garment Hanger Co.
GARD, combined flameproofing and mothproofing agent, U. S. Chemical Products Co.
GARDNER-DENVER, air compressors, pumps, Gardner-Denver Co.
GAS-HEAT, recirculators, Kisco Boiler & Engineering Co.
GASWAY, gas-heated flatwork ironers, Gasway Corp.
GATES, heavy duty industrial V-belts, Gates Rubber Co.
GAUSCO, valves, Golden-Anderson Valve Specialty Co.
GEARHART, reweaving, mending and hosiery mending needles, Columbia Needlework Supply Co., Gearhart Runner Knitter Co.
GEARLESS, washers, Zephyr Laundry Machinery Co.
GEEP, wet and dry spotter, Keystone Aniline & Chemical Co., Inc.
GELATONE, liquid size and finish, R. R. Street & Co., Inc.
GEM, grease cups, Lunkenheimer Co.
GEMZYME, enzymic digester, George E. Mead Co.
GENERAL, fire trucks, General Detroit Corp.
GENERAL, perchlorethylene drycleaning units, Martin Equipment Corp., Div. American Laundry Machinery Co.
GENERAL ELECTRIC, electrical equipment, General Electric Co.
GENERAL FORMULA, stain remover, G & G Chemical Co.
GERMITEK, sour, Hood Chemical Co., Inc., Crestent Div.
GIANT, built high-titer soap powder, Armour & Co.
GIANT, hydraulic extractor, Strike's Laundry Machinery, Inc.
GIANT KING, net pins, Keyes-Davis Co.
GIBRALTAR, marking and printed tags, Commercial Tag Co.
GIBRALTAR TRI-PRONG CLIP, skirt hanger fastener, Commercial Tag Co.
GIFCO, tags, H. M. Gifford Mfg. Co.
GI-GR-NITE, tags, Clinton Products Co.
GILBARCO, oil burners, Gilbert & Barker Mfg. Co.
GILMER, V-belts, flat belting, woven belting, New York Belting & Packing Co.
GILT EDGE, round leather belting, J. B. Williams & Sons
GLAMORENE, carpet cleaning compound, Jercleyn, Inc.
GLAZEEN, fur glazing fluid, Package Chemical Co., Inc.
GLAZOLINE, fur luster, Nycco Products Co.
GLIDE, liquid waxing soap, Trico Chemical Div., Tri-State Equipment Co.
GLENN ANDERSON, paper collar supports, Howe Paper Corp.
GLENZIE, zipper repair tools, supplies, Glen Zip Co.
GLIDE LINER, pressing machines, laundry powder presses, Unipress Co.
GLIDER, electric irons, J. W. Steele & Co.
GLIDER, pressing machine, Loyal Textile Machinery Corp.
GLIM, detergent, General Aniline & Film Corp., Special Products Sales Div.

GLISS'N, cleaning compounds, mothproofing, Gliss'n Products Co., Inc.
GLOBE, drycleaning marking and strip tags, Globe Ticket Co. of New England
GLOBE, laundry, drycleaning washers, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
GLORY, tallow soap chips, Swift & Co.
GLO-SOAP, drycleaning soap, Start Soap & Chemical Co.
GLOSSTEX, canvas products, C. R. Daniels, Inc.
GLOVER, cleaners' specialties, Bill Glover, Inc.
GLUV-NU, glove soap, Davies-Young Soap Co.
GLYD-ON, shirt clip, Time Savers, Inc.
GMC TRUCKS, motor trucks, GMC Truck & Coach Div., General Motors Corp.
GO-BACK, conveyors for flatwork presses, Rosenbath Mfg. Co.
GOLDEN FLAKE, laundry soaps, Fry Bros. Co.
GOLD-FLO, boilers and condensation return system, Goldman Pressing Machinery Corp.
GOLD LINE, laundry fabric, Tongue, Brown & Co.
GOLD MEDAL, hatters' chemicals, machinery, Hatters Supply House, Inc.
GOLD MEDAL, nets, Southern Mills, Inc.
GOLD-SEAL, colored specialty tapes, Gummed Tape & Devices Co.
GOLD SEAL, rug shampoo, Huntington Laboratories, Inc.
GOLD STAR, feed ribbons, New York Belting & Packing Co.
GOOD FORM, garment hangers, Pacific Coat Hanger Mfg. Co.
GOODRICH, rubber hose, belting, packing, B. F. Goodrich Co.
GORTON, air eliminators, Gorton Heating Corp.
GOVERNOR, marking tags, A. Goodman & Co.
GRAND, belt drawing, Graton & Knight Co.
GRAND, hatters' equipment, supplies, Marant Button & Supply Co.
GRANOLITH, paint for brick, concrete, stucco, Barreled Sunlight Paint Co.
GRANTHAM, unloading tumblers, U. S. Hoffman Machinery Corp.
GRANUWAX, granulated wax, Lewis National Corp.
GRAVES & MARSHALL, water heaters, heat exchangers, pressure and storage tanks, Graves & Marshall Co.
GREAVES, silent bakelite gears, milling machines, Greaves Machine Tool Co.
GREENBACK, apron duck, John T. Stanley Co., Inc.
GREEN BUBBLES, soap powder, Minnesota Chemical Co.
GREENCOTE, refractory maintenance coating, A. P. Green Fire Brick Co.
GREEN GLO, oil soap, Allen B. Wrisley Co.
GREEN LABEL, builder compound, Solvay Sales Div., Allied Chemical & Dye Corp.
GREEN LABEL, laundry fabrics, R. Lilly Co.
GREEN OLIVE, soap, Rome Soap Mfg. Co.
GREENSTRIP, cover cloth, John T. Stanley Co., Inc.
GREEN STRIPE, padding, William E. Hooper & Sons
GREENWOOD, pins, sewing needles, binding tape, Greenwood Textile Co.
GREENZYME, digestive enzyme, Greenville Chemical Co.
GWEIF, hangers, guards, Greif Bros. Coöperage Corp., Wire Garment Hanger Div.
GRENO, break powder, Sparte Co.
GREYHOUND, extractor, synthetic washer, wash-wheel, Hercules Laundry Machinery Co., Inc.
GREYHOUND, washers, U. S. Hoffman Machinery Corp.
GREY-ROCK, brake lining, clutch facings, brake blocks, Raybestos-Mahattan, Inc.
GRIMES, air compressor, Grimes Co.
GRIPNET, nylon net closures, Keyes-Davis Co.
GRIPPO, slip-resistant trouser guard, Patek & Co.
GRIPPO GUARD, trouser guards, L. M. Leathers' Sons
GRIPITE, bagging rod clamp, G. H. Bishop Co.
GRIP-TITE, marking tags, Liberty Marking Tag Co., Inc.
GRIPITITE, rug pole hangers, American Laundry Machinery Co.
GROSS, drycleaning extractors, filters, tumblers, washers, Gross Machinery Co., Inc.
GROSSAID, open-end tumbler, Gross Machinery Co., Inc.
GROSS-OMATIC, safety petroleum drycleaning unit, Gross Machinery Co., Inc.
GROSS STAR, grid plates, electric steam irons, ironing boards and tables, L. Behrstock Co.
GROSS-X, tumbler, Gross Machinery Co., Inc.
G-SEAL, pipe joint compound, Quigley Co., Inc.
G-SOL, drycleaning soap, G & G Chemical Co.
GUARANTEED, liquid powdered high-titer laundry soap, Swift & Co.
GUARDSMAN, watchclock, Dextex Watchclock Corp.
GULF, petroleum and Stoddard solvents, rust preventatives, greases and lubricating oils, Gulf Oil Corp.-Gulf Refining Co.
GUMCRAFT, gummed, mending and printed tags, Gummed Tape & Devices Co.
GUTH FLUORESCENT, fluorescent lighting equipment, Edwin F. Guth Co.
GUTH GERM-KILLING LIGHTS, bactericidal lighting equipment, Edwin F. Guth Co.

H, water soluble grease, Keystone Lubricating Co.
HCR, high capacity sation exchanger, National Aluminate Corp.
HD, belt fasteners, Flexible Steel Lacing Co.
H.K., water repellent, H. Kohnstamm & Co., Inc.
H-Q, disinfectant, Huntington Laboratories, Inc.
HTH, soda bleach mix, calcium hypochlorite with soda base, Mathieson Chemical Corp.
HW, liquid soap, Eaton Chemical & Dyestuff Co.
HAERTEL, fumigation cabinets, garment racks, fur vault door, Walter Haertel Co.
HAGAN, combustion control for boilers, Hagan Corp.
HAGAN RING BALANCE, flow meters, Hagan Corp.
HAIRROUND, round belting, Graton & Knight Co.
HALL, tanks and tubs, Amos H. Hall & Sons
HAMILTON, trucks, Hamilton Caster & Mfg. Co.
HAMILTON, spring padding, American Laundry Machinery Co.
HAMMEL-DAHL, valve controls, valves, Hammel-Dahl Co.
HAMMOND, washers, tumblers, etc., Hammond Laundry-Cleaning Machinery Co.
HANCOCK, globe, angle and gate valves, Manning, Maxwell & Moore, Inc.
HANDEE, presses, Force Equipment Corp.
HAND-FILM, protective hand cream, National Cleaners Chemical Mfg. Co.
HANDI, bundle and garment racks, Sparte Co.
HANDIPAK, portable autographic register, Egly Register Co.
HANDIROL, mending tape, Gummed Tape & Devices Co.
HANDY, button and buckle covering equipment, Handy Button Machine Co.
HANDY, flatwork ironer, American Laundry Machinery Co.
HANDY, gate valves, Lunkenheimer Co.
HANDYPAK, day tags, Tagit Co.
HANGE-A-LOX, wire hanger rack, Time Savers, Inc.
HANGER-TIES, hanger combiners, H. F. Hansom & Co.
HANG-RITE, garment hangers, Waldorf Products Co.
HAUSER-STANDER, wood tanks, tubs, vats, Hauser-Stander Tank Co.
HAWEKE, soap flakes, Vio Soap Co.
HAYS, veriflow meter, visio-ratio gauge, Hays Corp.
HEATH-CRETE, refractory material, Quigley
HEART-OAK, leather belting, Graton & Knight Co.
HEAT-O-SEAL, thermium heat-seal labels, Tompkins' Label Service Co.
HEDD, curtain ruffle iron, Burkhardt Specialties Co.
H. E. FLUELESS, boilers, P. M. Lattner Mfg. Co.
HEIL-SHAW, pumps, American Engineering Co.
HELMET, steel safety pins, Rudson Mfg. Co.
HERCULES, extractors, Haring & Stephens Co.
HERCULES, Stoddard solvent and 140° F. drycleaning units, Hercules Laundry Machinery Co., Inc.
HERCULES CMC, sizing agent, Hercules Powder Co.
HERMAN, delivery truck body, Herman Body Co.
HERO, fire extinguishers, Bostwick Laboratories
HEY-B, combination oil and gas burner, Cleaver-Brooks Co.
HEXAGON, pads, covers, Stadham Co.
HEXAGON, prepotter, Riverside Mfg. Co.
HEXITE, wetcleaning soap, Riverside Mfg. Co.
HEXOL, prepotter, Slater-Robbins Co., Inc.
HEXOLATE, alkali, soap builder, Lewis National Corp.
HI-BASEX A, zeolite, Hungerford & Terry, Inc.
HIGH FLASH SHELL-SOL, naphtha petroleum solvent, Shell Oil Co., Inc.
HIGH-SPEED, curtain drier, drying tumbler, American Laundry Machinery Co.
HI-GRADE, leather belting, cement, dressing, Cornell Belting Co.
HI-INVERSAND, zeolite, Hungerford & Terry, Inc.
HILD, rug and carpet shampooing equipment, Hild Floor Machine Co.
HULO, built low-titer soap powder, Armour & Co.
HULO-CHROME, chrome-base bonding mortar, Mexico Refractories Co.
HULOSET, high-temperature bonding mortar, Mexico Refractories Co.
HI-LUSTINE, fur glazing fluid, Bernard Sirota Co.
HI-SPEED, flat fittings, Time Savers, Inc.
HI-SPEED, washer, Keystone Laundry Machinery Co.
HI-SPEED, washers, Zephyr Laundry Machinery Co.
HI TEST, high-pressure welded boilers, Kawance Boiler Corp.
HI-TEST, moth spray, Bernard Sirota Co.
HODGES, checking systems, Jack Hodges Specialty Co.
HOFFCO-VAC, portable vacuum cleaner, U. S. Hoffman Machinery Corp.
HOFFMAN, drycleaning laundry machinery, U. S. Hoffman Machinery Corp.
HOFFMANETTE, silk finishing press, U. S. Hoffman Machinery Corp.

HOFF-MANIKIN, dress shaper, U. S. Hoffman Machinery Corp.
HOFFMATIC, automatic pressing machines, U. S. Hoffman Machinery Corp.
HOLDAPRES, trouser hanger, B & C Engineering Co.
HOLD-FAST, leather belt dressing, I. B. Williams & Sons
HOLTITE, collar supports, Wormstead, Smith & Loomis, Inc.
HOL-TITE, marking tags, Liberty Marking Tag Co., Inc.
HOLT WHIRLWIND, floor polishers, Holt Mfg. Co.
HOMO-FLEX, hose, belting, Raybestos-Manhattan, Inc.
HOODCLOX, bleach, Hood Chemical Co., Inc., Crescent Div.
HOOF, automobile and engine governors, Hoof Products Co.
HOOPERWOD, cotton press padding, nets, William E. Hooper & Sons
HOPKESHER, corn starch, National Starch Products Co.
HOPE, tapes, belting, Hope Webbing Co.
HOPKINS, washing machines, tanks, Hopkins Equipment Co.
HOPKINS ATOMIZER, spotter, Hopkins Equipment Co.
HOPKINS FILTER, horizontal, bag-type filter, Hopkins Equipment Co.
HORN CRETE-FIX, floor resurfacer, A. C. Horn Co., Inc.
HORN DRI-N-TITE, floor coating, A. C. Horn Co., Inc.
HORN FUMEX, fume resistant coating for walls, ceilings, A. C. Horn Co., Inc.
HORNGLAZE, floor wax, A. C. Horn Co., Inc.
HORNOLITH, dustproofers for concrete floors, A. C. Horn Co., Inc.
HORSESHOE, shirt sorting bin, Time-Savers, Inc.
HOTT PATCH, heat-setting high-temperature cement, Ramitite Co.
HOWELL, sump pumps, oil burners, Kol-Master Corp.
HOYT, tumblers, Hoyt Mfg. Corp.
HUB, laundry marking tags, Boston Clip & Tag Co.
HUBER, overfed stokers, Flynn & Emrich Co.
HUBINGER COMPOUND, corn starch, Hubinger Co.
HUDSON BLEACH, sodium hypochlorite, Kuehne Chemical Co.
HUEBSCH, tumblers, Huebsch Div., American Laundry Machinery Co.
HUMIDIGRAPH, direct-reading humidity recorder, Bristol Co.
HUNGERFORD, filters, Hungerford & Terry, Inc.
HYAL, builders, George Stearns Chemical & Mfg. Co.
HYDRAMITE, pumps, American Engineering Co.
HYDRASOL, wetcleaning Celanese soap, Keystone Aniline & Chemical Co., Inc.
HYDRAULIC HANDLIFT and **FOOTLIFT**, trucks, Lewis National Products, Inc.
HYDRAXTON, extractor, Zephyr Laundry Machinery Co.
HYDRAZENE, rust remover, National Cleaners Chemical Mfg. Co.
HYDREVEL, naphtha-soluble waterproofing, National Cleaners Chemical Mfg. Co.
HYDROBREAK, laundry chemical, Diamond Alkali Co.
HYDRO CLABRO, bleach, Lewis National Corp.
HYDRO-KING, washer, Mid-West Laundry Machinery Mfrs.
HYDROL, spotting aids, Riverside Mfg. Co.
HYDROLATY, laundry chemical, Diamond Alkali Co.
HYDROLINE, booster and large condensate return, Peerless Pump Div., Food Machinery & Chemical Corp.
HYDROPEL, water repellent, National Cleaners Chemical Mfg. Co.
HYDROSITE, reducing bleach, Nu-Pro Mfg. Co.
HYDROSULFITES, stripping agent, Jacques Wolf & Co.
HYDROSULFOSOL, ointment for burns, Reed-Davis Drugs, Inc.
HYDROTROL, electro-physical water treatment equipment, Heller Laboratories
HYEX, super-duty firebrick, McLeod & Henry Co.
HYTLO SUPER-CEL, filter powder, Johns-Manville
HYFOAM, detergents, George Stearns Chemical & Mfg. Co.
HYGAE PINE, pine oil disinfectant, Continental Car-Na-Vac Corp.
HY-GLAS, gummed, ungummed labels, Thompson Label Service
HYGRADE, plastic buttons, Hygrade Button & Supply Co.
HY-LO, blanket washer, American Laundry Machinery Co.
HYFAC, bleach, Lewis National Corp.
HY-SET, high temperature bonding mortar, Mexico Refractories Co.
HY-SOL, soap builders, Thompson-Hayward Chemical Co.
HYSPAR, aluminum and white enamel under-paint, Midland Paint & Varnish Co.
HY-SPOT, substitute for chloroform, Slater-Robinson Co., Inc.
HYTEMPITE, high-temperature bonding mortar, Quigley Co., Inc.
HYTEXAL, built tallow soap, Allen B. Wisley Co.

HY-V AIR JET, high-velocity concentrated cooling fan, DeBothezat Fans Div., American Machine & Metals, Inc.
HYWHITE, shoe sparer Co.
HY-WHITE, soap, H. Kohnstamm & Co., Inc.

I

I.D.N., iodine stain remover, Package Chemical Co., Inc.
IMO, rotary pump, De Laval Steam Turbine Co.
I-R, liquid spotter for ink stain removal, Caled Products Co., Inc.
I-R-C, lightweight insulating refractory castable and concrete, Mexico Refractories Co.
I.S., press clamp, slip chain, racks, Ink-O Products Co., Inc.
IXL, laundry soap, Fry Bros. Co.
IDEAL, filter paste soap, National Cleaners Chemical Mfg. Co.
IDEL, floor-O Corp., Lunkenheimer Co.
IDEALITE, non-glare neon-type light, Ideal Lighting Co., Inc.
IDEAL STYLE A, laundry washer, American Laundry Machinery Co.
IGEPALS, synthetic detergents, General Dye-stuff Corp.
IGEPONS, synthetic detergents, General Dye-stuff Corp.
ILG, centrifugal and propeller fans, unit heaters, Ilg Electric Ventilating Co.
IMPACTOR, valve handwheels, Edward Valves, Inc., Subsidiary Rockwell Mfg. Co.
IMPERIAL, asbestos pipe covering and blocks, Ruberoid Co.
IMPERIAL, chest-type ironer, Imperial Laundry Machinery Co.
IMPERMEONOL, water repellent, Warwick Chemical Co.
INCO, metal castings, fittings, tubings, nickel alloy fittings, castings, etc., International Nickel House, Inc.
INCONEL, alloy of nickel and chromium, International Nickel Co., Inc.
INDEL-O-MARK, indelible automatic marking
INDIAN, laundry soap, North Coast Chemical & Soap Works
INDIVIDUAL PROCESS, ironer, Prosperity Co., Inc.
INDIVIDUAL PRODUCTION, washer, Prosperity Co., Inc.
INDUSTRIAL, cylinders, extractors, tumblers, washers, Industrial Laundry Machinery Co., Inc.
INDUSTRIAL, fabric conditioner for wetcleaned garments, Vanco Chemical Corp.
INDUSTRIAL, neutral soap chips and powder, Armour & Co.
INEX, Laundry Rinsing Aid, H. Kohnstamm & Co.
INGERSOLL-RAND, compressors, blowers, pumps, Ingersoll-Rand Co.
INGRAIN, laundry starch, Industrial Grain Products, Ltd.
INKEK, ink remover, Patek & Co.
INKKO, liquid oxidizing agent, A. L. Wilson Chemical Co.
INK-KLEEN, indelible ink remover, Kern Laboratories
INK-O, spotting aid, Ink-O Products Co.
INNER-PAK, steel split repair sleeves, Dresser Mfg. Div., Dresser Industries, Inc.
INSTANT, moth killer, Berlioz Mfg. Co.
INSTITUTIONAL, fabric preservative, conditioner, Namco Chemical Corp.
INSTITUTIONAL, starch, A. E. Staley Mfg. Co.
INSULAG, plastic refractory lagging and finishing material for high-temperature equipment, Quigley Co., Inc.
INSULBRIX, insulating firebrick, Quigley Co., Inc.
INSULCRETE, refractory material, Quigley Co., Inc.
INTERNATIONAL, chemical mixing machinery, tanks, International Engineering, Inc.
INTERNATIONAL, trucks, diesel and gasoline engines, International Harvester Co.
INVERAR, pumps, Schirmer-Dornbier Pump Co.
INVERCARE, zeolite, Hungerford & Terry, Inc.
INVERSAND, water-softening minerals, water softeners, Hungerford & Terry, Inc.
INVINCIBLE, industrial vacuum cleaners, Invincible Vacuum Cleaner Mfg. Co.
IN-WEAVING, reweaving, In-Weaving Co. of America
IODASE, iodine stain remover, Greenville Chemical Co.
IPCO, safety equipment, Industrial Products Co.
IRON CITY, duck cover, Pittsburgh Waterproof Co.
IRON FIREMAN, stokers, gas and oil burners, Iron Fireman Mfg. Co.
IRON HORSE, metalware, Rochester Can Co.
IRONOL, ironing surface lubricant, Patek & Co.
IRON OILITE, machine parts lubricating bearings, Amplex Div., Chrysler Corp.
IRON-RITE, metallic flatwork ironer pads, Fullo
IROOQUIS, safety pins, Risdon Mfg. Co.
IROOQUIS, soap, Lewis National Corp.
IROX, iron-oxide-zinc chromate paint, Subox, Inc.
ISOCLOX, powdered bleach, Carman & Co., Inc.

J

ISOGRAPH, stencil ink, Carman & Co., Inc.
ISOMODE, vibration absorber pads, press shock absorber units, M. B. Mfg. Co., Inc.
ISOTARS, tablet-form laundry blue, Carman & Co., Inc.
IVORY, soaps, chips, powder, Procter & Gamble Distributing Co.

J.F.S., variable speed reducers, Stephens-Adamson Mfg. Co.
J-M, packings, gaskets, Johns-Manville
J-P-S, drycleaning soap, H. R. Street & Co., Inc.
JANET, steam necktie presses, glove forms, Shedd-Hoiz Mfg. Co.
JAY BEE, super-duty firebrick, Mexico Refractories Co.
JAY-DEE, fur stretcher, fur and leather softener, mothproofing liquid, Jay-Dre, Inc., Mfg. Chemists
JEFFERSON ISLAND, salt, Jefferson Island Salt Co., Inc.
JEFFERSON THOROBRED, wood and metal laundry and drycleaning washers, Laundry Machinery Div., Jefferson Wood Working Co.
JETVEYOR, steam jet ash conveyor, Brady Conveyor Corp.
JIFFY, blanket washer, Abe Cohen & Son
JIFFY, cuff and pocket brusher, bagging devices, bag racks, Medallie Mfg. Co.
JIFFY, puff iron, Columbia Laundry Machinery Co.
JIFFY, rock turner, Time Savers, Inc.
JIFFY SORTERS, sorting books with clip attached, Frank R. Smith Co.
JIFFY-STICK, ink remover, National Cleaners Chemical Mfg. Co.
JOHNSON, flexible metal hose, Johnson Metal Hose, Inc.
JOHNSON, ironer oil, liquid stripper, Johnson Chemical Industries, Inc.
JOHNSON, rotary pressure joints, steam water heater, compressed-air separators, compressed-air aftercoolers, high-temperature boiler feed system, solenoid valves, automatic boiler water control, Johnson Corp.
JOHNSTON, steam boilers, Johnston Bros., Inc.
JOINT-SEAL, anti-seize, joint seal and clean-out plug compound, Armite Laboratories
JOMAC, scorch-resistant fabric, C. Walker Jones Co.
JUMBO, metallic wool padding, International Steel Wool Corp.
JUMBO, net pins, Risdon Mfg. Co.
JUNIOR, extractor, Fletcher Works, Inc.
JUNIOR CHALLENGER, washer, Miller Laundry Machinery Co.
JUNIOR KING, net pins, Keyes-Davis Co.

K

K & B, barrels, bins, boxes, buckets, cabinets, chutes, cylinders, guards, tanks, and ventilating systems, Kirk & Blum Mfg. Co.
K.B., soap powder, sour, Kliegman Bros., Inc.
K-D, nets, marking pins, Keyes-Davis Co.
KMS, mothproofing agent, Kimford Co.
K.O.F., coco-potash soap, Armour & Co.
K & I, valves, Klipfel Mfg. Co.
K-V, heavy fluid lubricant, Keystone Lubricating Co.
KALITE, calcium carbonate, Diamond Alkali Co.
KAME-KLEEN, soap powder, Kamen Soap Products Co., Inc.
KAMENOL D, synthetic detergent, Kamen Soap Products Co., Inc.
KAMENOL M, powdered laundry soap, Kamen Soap Products Co., Inc.
KAMENOL 92, soap flakes, Kamen Soap Products Co., Inc.
KAMENOL 99, soap beads, Kamen Soap Products Co., Inc.
KAMEX R, vegetable powdered low-titer soap, Kamen Soap Products Co., Inc.
KATOLIGHT, generators, light plants, Kato Engineering Co.
KATR FURS, fur repair, remodeling, purchasing service, David G. Kaplan's Drycleaner's Service

- KAY, concentrated mothproofers, Kinford Co.
 KAY-BEE, cover cloth, Kieglman Bros., Inc.
 K-BI, break alkali, Laundry Chemicals Co.
 K-BRITE, drycleaning soap, H. Krevit & Co., Inc.
 KECKLEY, steam and liquid control equipment, O. C. Keeley Co.
 KEEDOL, drycleaning filter soap with antiseptic and mothproofing, A. F. Wolke Co.
 KEELER C.P. boilers, E. Keeler Co.
 KEEN AIR DISINFECTOR, odor absorbent, diaper can deodorant, fumigant, Keystone Chemical Co.
 KEE-STAR, corn starch, Keever Starch Co.
 KEEVER, rug and carpet size, Keever Starch Co.
 KEEVER CLEANER, cleaner for metal sleeve form and press, Keever Starch Co.
 KENO, moth-repellent garment storage bags, Keneddy Car Liner & Bag Co., Inc.
 KELCO, cutting oil, Keystone Lubricating Co.
 KELITE, laundry and boiler compounds, Kelite Products, Inc.
 KELLEY, heat reclaimers, hot-water heaters, storage heaters, Patterson-Kelley Co., Inc.
 KEELOGG-AMERICAN, air compressors, paint spray equipment, American Brake Shoe Co., Kellogg Div.
 KELMAKER, pressure filters, vacuum traps, sight-glass assemblies, Kelmaker Mfg. Co.
 KEM-BU, liquid blue, Kem Laboratories
 KEMINATE, synthetic detergent, penetrant, Kem Laboratories
 KEMITE, sour, Kem Laboratories
 KEMLEK, drycleaning detergent, Kemek Corp., Div. John-Halpert, Inc.
 KEMO, alkali compounds, Kem Laboratories
 KEM PRO, cover cloths, Whitehouse Nylon Products
 KEMWASH, laundry liquid detergent, Kemek Corp., Div. John-Halpert, Inc.
 KEN DOZ, synthetic drycleaning machine, John W. Young
 KENNEDY, paper bags, Kennedy Car Liner & Bag Co., Inc.
 KENNEY, water softeners, filters, zeolite, Kenney Softener & Filter Co.
 KENNO, powder synthetic wetcleaning detergent and water softener, Keystone Chemical Co.
 KENTUCKY, trucks, dollies, boxes, Kentucky Box & Truck Co.
 KEWANEE, heating boilers, power boilers, storage water heaters, steel tanks, water heating garbage burners, Kewanee Boiler Corp.
 KEY KLEEN, liquid wetcleaning detergent and conditioner, Keystone Chemical Co.
 KEY-LON, brake blocks, Raybestos-Manhattan, Inc.
 KEYLUBRIC, air tool lubricant, Keystone Lubricating Co.
 KEYPROOF, combination flameproofing and mothproofing agent, Keystone Chemical Co.
 KEYSO, drycleaning agent, G & G Chemical Co.
 KEYSRAY, mothproofing agent and insecticide, Keystone Chemical Co.
 KEYSTONE, alkalis, Swift & Co.
 KEYSTONE, extractors, Keystone Laundry Machinery Co.
 KEYSTONE, hat sizing, Keystone Aniline & Chemical Co., Inc.
 KEYSTONE, leather soap and liquid glove bleach, nail polish remover, white kid glove bleach, Keystone Aniline & Chemical Co., Inc.
 KEYSTONE, steam generator, Erie City Iron Works
 KEYSTONE, washable service apparel, Keystone Coat & Apron Mfg. Corp.
 KEYSTONE, wax spot remover, Keystone Lubricating Co.
 KEYSTONE DIM-KLEEN, spot remover, Keystone Chemical Co.
 KEY-TAG, automatic mechanical identification system, Key-Tag Checking System Co.
 KEY-TEX, filter soap, G & G Chemical Co.
 KEYTEX, CONC, drycleaning soap, Keystone Aniline & Chemical Co., Inc.
 KEYTHOL, deodorizing machine and scent blocks, Keystone Scent Conditioner Corp.
 K-253, low-temperature soap powder, Laundry Chemicals Co.
 KALL, boiler stew, to remove scale deposit, National Chemical Sales Co. Laboratory, Inc.
 KALDEE, fire extinguishers, Walter Kidde & Co., Inc.
 KIDDYKOLOR, garment bags, Kennedy Car Liner & Bag Co., Inc.
 KILLARNEY, laundry blue, Patek & Co.
 KILLFYN, automatic fire extinguisher, General Machine Supply Co.
 KIL-ODE, deodorant, Warco Laboratories
 KING-CLIP, gate valve, Lunkenheimer Co.
 KIRK'S, spray guns, formers, finishers, Kirk's Leather Cleaner
 KISCO, boiler room equipment, Kiaco Boiler & Engineering Co.
 KLAMP-ON, pin sets, Moore's Time-Saving Equipment
 KLEANWELL, oil soap, Minnesota Chemical Co.
 KLEARX, solvent, lime soap, Kem Laboratories
 KLEANAP, rug detergent, H. Kohnstamm & Co., Inc.
 KLEENFLO, activated sweetener, L. A. Salomon & Bro.
 KLEENHAMPER, portable laundry and drycleaning drop box, Nevinger Mfg. Co.
 KLEEN PAK, drycleaners bags, Diem & Wing Paper Co.
 KLEEN-RITE, coconut-oil soap, National Cleaners Chemical Mfg. Co.
 KLEEN SHEN, patie rug soap, Adco, Inc.
 KLEEN SUDS, soap, Lewis National Corp.
 KLEERITE, indelible inks, American Writing Ink Co., Inc.
 KLEERVU, safety eye guard, gauge-glass protector, Wright-Austin Co.
 KLEER-VUE, window paper garment bag, Schor Paper Co., Inc.
 KLENEASE, liquid wetcleaning soap, Caled Products Co., Inc.
 KLERA CID, laundry sour, Wyandotte Chemicals Corp.
 KLEX, pumice soap, Colgate-Palmolive-Peet Co.
 KLEGIBILT, alkali, break powder, Kliegman Bros., Inc.
 KLEGISFUNG, nets, cover cloth, Kliegman Bros., Inc.
 KLEGWEAVE, nets, Kliegman Bros., Inc.
 KLIPLON, clamps for fuse clips, test clamps, Tricon Fuse Mfg. Co.
 KLIP-ZIT, drier clips, Time Savers, Inc.
 K-LIQUID SOAP, liquid soap, Laundry Chemicals Co.
 KLIX, paint remover, Nu-Pro Mfg. Co.
 KLORCENT, synthetic soap, G & G Chemical Co.
 KLOR-LENE, spotting solution with chloroform action, Davies-Young Soap Co.
 KLORO, liquid detergent for use with synthetic solvent units, Adco, Inc.
 K-MASTER, steam traps, air traps, continuous boiler blow-down valves, Kaye & MacDonald Inc.
 K-MASTER KLEEN AIR, filters, Kaye & MacDonald, Inc.
 K-MONEL, heat-treating alloy, International Nickel Co., Inc.
 KM-129, odor absorber, deodorant, disinfectant, fumigant, synthetic detergent, chemical water conditioners, Keystone Chemical Co.
 KNIGHT-WARE, acid-proof chemical stoneware, Maurice A. Knight
 KNITTED PADDING, press pads, Knitted Padding Co.
 KNOS-LOCK, laundry nets, New York Net Co.
 KOKO, liquid wetcleaning soap, Adco, Inc.
 KOKOWET, wetcleaning soap, Stadham Co., Inc.
 KOL-SO, sour, Minnesota Chemical Co.
 KOLITE, cold-water built soap, John T. Stanley Co., Inc.
 KOL-MASTER, stokers, Kol-Master Corp.
 KOLMATES, industrial soap, Allen B. Wrialey Co.
 KOLURGO, hot-water liquid color stripper, Washline National Sands, Inc.
 KOMO, blues, ironing oil, Minnesota Chemical Co.
 KOMONOL, organic detergent, Minnesota Chemical Co.
 K-121-B, break powder, Laundry Chemicals Co.
 K-122, soap builder, Laundry Chemicals Co.
 KON-NEC-TOR, mercury switch, General Electric Co.
 KOOL-WAIV, axial fans, International Engineering, Inc.
 KORO, filter detergent, Nu-Pro Mfg. Co.
 KOROLA, French-cuff fastener, Boston Clip & Tag Co.
 KOSMETEX, spotter for cosmetic stains and liquors, Patek & Co.
 KOVERLOX, file fasteners, Speed Products Co., Inc.
 KOYLON, foam pressing pads, U. S. Rubber Co., Koylon Div.
 KRAN-MER, dyeing, Kran-Mer Corp.
 KRAN-SO, steam trap for relieving burns, cuts, etc., Caled Products Co., Inc.
 KROMOAK, leather and waterproof leather belt, Charlotte Leather Belting Co.
 KRONMAN, leather and waterproof leather belt, Charlotte Leather Belting Co.
 K-SOLVENT, detergent for industrial wetwash, Laundry Chemicals Co.
 K-333, built soap powder, Laundry Chemicals Co.
 KUFTACKER, stapler for trouser cuffs, Bostitch, Inc.
 KUNKLE, safety and relief valves, Kunkle Valve Co.
 KURB-SIDE, motor truck bodies, J. B. E. Olson Corp.
 KWICK, fluorescent bleach, Eaton Chemical & Dyeing Co.
 KWIK CHANGE, cover and iron springs, Time Savers, Inc.
 KWIK KOVER, hanger shields, Kwik Kover Sales Co.
 KWIK ON, rug stretching bars, Moore's Time-Saving Equipment Co.
 KWIK-SET, bag and net holders, Time Savers, Inc.
 KWIK SUDS, cold water laundry soap, Kem Laboratories
 KWIK TAG, marking tags, Kwik Kover Sales Co.
 KWIX SET, washing-machine timer, H. C. Thompson Clock Co.
 KWE VOLCLAY, bentonite clay, American Colloid Co.
 LADLAN, hangers, W. A. Laidlaw Wire Co.
 LALLY, pillow supplies, R. Lally Co.
 LAMTEX, rug mats, press pads, Burgess-Berliner Associates
 LAM-TEX, sponge press pads, rubber floor mats, Pittsburgh Tag Co.
 LANATEX, controlled alkaline detergent for fugitives, Carman & Co., Inc.
 LANATEX C, alkaline detergent for carpets and rugs, Carman & Co., Inc.
 LANE, baskets, trucks, hampers, W. T. Lane & Bros., Inc.
 LANI-TEX, press pads, floor mats, Pittsburgh Tag Co.
 LAPELLETES, lapel protectors, M. H. Gronauer Co.
 LARTON, assembly hooks, sorters, Larton Products Co., Inc.
 LATCO, boilers, P. M. Lattner Mfg. Co.
 LATEX-O-CRETE, chemical resistant, United Laboratories, Inc.
 LATHERINE, rug shampoo, Continental Car-Na-Var Corp.
 LATTNER, boiler feed pumps and return systems, P. M. Lattner Mfg. Co.
 LAUNDERITE, laundry starch, Clinton Foods Inc.
 LAUNDERLOG, recording washwheel thermometer, water meter, F. M. Lattner Mfg. Co.
 LAUNDR-EEZ, synthetic detergent, Thomson Chemical Co.
 LAUNDR-O-PAD, pre-cut pad for laundry presses, Arrow Mfg. Co.
 LAUNDRY COMPOUND, soap builder, Solvay Sales Div., Allied Chemical & Dye Corp.
 LAUNDRY SOUR, acid material for neutralizing, Yuto Products, Inc.
 LAUNSO, medium pH built soap, E. F. Drew & Co., Inc.
 LAUREL, rubber markers, Laurel Co.
 LAVERKOL, soap washing, General Dyeatall Corp.
 LAYEL, APPARUS, process for bleach, Wallace & Tiernan Products, Inc.
 LAVOX, machinery enamel, Pittsburgh Paint Glass Co., Paint Div.
 LAWSON, pulley, hand trucks, wheels, casters, Menasha Wood Split Pulley Co.
 LAYCO, garment hanger, Star Service Hanger Div., L. A. Young Spring & Wire Corp.
 LAYNE, rug repair and remodeling services, water well supplies, Layne & Bowler, Inc.
 LAYTITE, floor coating, Steelcase Mfg. Co.
 LE ANN, rug repair and remodeling services, Le Ann Fine Arts
 LEATHER-FAST, suds leather dye, Keystone Aniline & Chemical Co., Inc.
 LEATHER-LIFE, leather dressing, Nycco Products Co.
 LEATHER-LUSTRE, smooth-leather colors, Keystone Aniline & Chemical Co., Inc.
 LEATHER SOAP, leather cleaning and glove soap, Spix Products Co.
 LECTROLIER, fans, Sun Fluorescent Electric Co.
 LED-PLATE, thread and gasket pad, Armit Laboratories
 LEEBAW, counter conveyor, industrial trucks, Lee-Baw Mfg. Co.
 LEEFE, flexible form, Leef Bros., Inc.
 LEFFEL, automatic underfeed stokers, steam boilers, James Leffel & Co.
 LENACO, baskets, bleaches, blues, ink, ironer job, pads, Barchus, press covers, cement, Lewis National Corp.
 LENACO NO-SNAG, tumbler pads, Lewis National Corp.
 LENASOL, disinfectant, Lewis National Corp.
 LENDLE, overcoat shaper, U. S. Hoffman Machinery Corp.
 LEONARD, manually operated drycleaning press, Leonard Pressing Machine Co.
 LESLIE, controls and regulators, pumps, valves, Leslie Co.
 LESLIE-TYFON, whistles, horns, signals, Leslie Co.
 LESO, leather soap, Nu-Pro Mfg. Co.
 LESTOIL, liquid synthetic detergent, Adell Chemical Co.
 LETHALAIRE, aerosol insecticide, Virginia Smelting Co.
 LETHOL, MOTH FUMIGANT, insecticide, Morthol Chemical Laboratories
 LEVELENE, textile dyeing assistants, American Aniline Products, Inc.
 LEVELENE FGD, color-setting liquid, American Aniline Products, Inc.
 LEVELOL, stripper, Eaton Chemical & Dyestuff Co.
 LEVELOMETER, gauges, Liquidometer Corp.
 LEVELON, blue, H. Kohnstamm & Co., Inc.
 LEVELON, moisture leveler and neutral spotting base, National Cleaners Chemical Mfg. Co.
 LEWIS, baskets, trucks, G. B. Lewis Co.
 LEWIS, rug binding machines, Lewis Invisible Strich Machine Co.
 L-4008, laundry starch, Clinton Foods Inc.
 LIFE, sizings, Life Products Co.
 LIFE FOR FABRICS, water repellent and fabric conditioner, Frank Research Co.
 LIFETIME MOTHPROOFING, moth repellent, Shur Morthproof Co.
 LIFE-TUBE, ball-bearing pillow blocks and flange units, T. B. Wood's Sons Co.
 LIGHTER METHOD, laundry packages, Sutherland Paper Co.
 LIGHTNING, drycleaning, fur and upholstery cleaning compounds, Martemoh Chemical Laboratories

LIGHTNING, water-repellent dip tank, Hopkins Equipment Co.

LIME-SOLV, calcium solvent, H. Kohnstamm & Co., Inc.

LINDOLIN, rug and carpet redyeing, Lincoln-Hudson Rug Dyers, Inc.

LINEX, synthetic wetcleaning soap, Allen & Vickers, Inc.

LINK-BELT, chains, conveyors, stokers, power transmission machinery, Link-Belt Co.

LINN, special bodies, delivery trucks, Lion Coach & Truck Div., Great American Industries, Inc.

LINOL, disinfectant, Lincoln Research, Inc.

LION-BILT, work uniforms, Lion Uniform Co.

LIP-I-CATER, lipstick and lacquer remover, W. F. Johnson Products Co.

LIPOFF, cleaning compounds, Mortemoth Chemical Laboratories

LIPSTICK-MUV, lipstick remover, Package Chemical Co., Inc.

LIQUA-BREAK, washroom detergent, Davies-Young Soap Co.

LIQUID BLUE, blue, Diamond Alkali Co.

LIQUID BLUE, blue, H. Kohnstamm & Co., Inc.

LIQUID DRICLENE, drycleaning detergent, Armstrong & Miller, Inc.

LIQUID MORTEMOTH, insecticide, Mortemoth Chemical Laboratories

LIQUIDOMETER, gauges, Liquidometer Corp.

LIQUIVATOR, condensate return system, Morehead Mfg. Co.

LIXOR, chloroxylenol, disinfectant, Lincoln Research, Inc.

LISTMAKER, listing machines, National Marking Machine Co.

LITTLE CHIEF, pumps, Fairbanks Morse & Co.

LITTLE GIANT, cuff and pocket cleaner, Little Giant Specialties

LITTLE GIANT, water spray gun, Stebbins Mfg. & Supply Co.

LITTLE SCOTCHMAN, Scotch marine boilers, U. S. Hoffman Machinery Corp.

LITTLE WARRIOR, metal washer, Illinois Laundry Machinery Mfg. Co.

LYXLE WOMAN, electric whiskbrush, American Freshboard Co., Inc.

LYVE OAK, leather transmission belting, Eagle Belting & Leather Co.

LXATE, rock-salt dissolver, International Salt Co., Inc.

L, N, 4, spotter and stripper, Lewis National Corp.

LOCK END, trouser guards, necktie forms, Paulin Products Co.

LOEBL, garment, rug dyeing, Loeb Dye Works, Inc.

LO-FRONT, washer, U. S. Hoffman Machinery Corp.

LOGIK, soap builder, Minnesota Chemical Co.

LO-HED, hoists, car pullers, American Engineering Co.

LOE-TITE, marking tags, Liberty Marking Tag Co., Inc.

LO-MAINTENANCE, electric motors, Allis-Chalmers Mfg. Co.

LONGBOY, laundry net, Carson Textile Co., Inc.

LONGLIFE, fur glaze, rayon ribbons, Tingle, Brown & Co.

LOOKOUT, boilers, Lookout Boiler & Mfg. Co.

LO-SET, high temperature mortar, Mexico Refractories Co.

LOSET, stokers, Canton Stoker Corp.

LOSTOKER, boiler stoker, Detroit Stoker Co.

LOT SYSTEM TAG-O-MATIC, marking machine for lot system identification, Textile Marking Machine Co., Inc.

LOUDEN, conveyors, cranes, hoists, Loudon Machinery Co.

LOW FRONT, washers, Zephyr Laundry Machinery Co.

LOX-IN, collar supports, Time Savers, Inc.

LOYAL, automatic starcher, Armstrong Machinery Co.

LOYAL, pressing machines, vacuum systems, starching machines, Loyal Textile Machinery Corp.

LT 60, built red oil soap, Allen B. Wrisley Co.

LUBEFLEX, starch aid lubricant, Hood Chemical Co., Inc.

LUB-N-WAX, fur glaze, Nycco Products Co.

LUBRI-KLEEN, lubricating agent for ironers and presses, Paper Chemicals Co.

LUBRITEX, NC, drycleaning soap, Allen & Vickers, Inc.

LUBRITEX S, drycleaning soap, Allen & Vickers, Inc.

LUCIDE A-20, waterproof insecticide, Pest Control Equipment Co.

LUNKENHEIMER, valves, boiler mounts, lubricators, grease cups, gauges, etc., Lunkenheim Co.

LUPOGUM, size and finishing, Jacques Wolf & Co.

LUSTERETTE, portable fur ironing and glazing machine, Reliable Fur Storage Equipment Co., Inc.

LUSTER-ON, fur glaze, Nycco Products Co.

LUSTERSUDS, soap, H. Kohnstamm & Co., Inc.

LUSTERWAY, drycleaning system for franchise basis, McCleary Associates, Inc., and/or Root & Co.

LUSTERWAY COMPOUND, for cleaning sawdust, Root & Co.

LUSTERWAY FORMULA, fur conditioner and glaze, Root & Co.

LUSTERWAY SOLVENT, fur cleaning solvent, Root & Co.

LUSTRALL, liquid synthetic cleaner, National Cleaners Chemical Mfg. Co.

LUSTRE SEAL, floor sealing and repair material, Keystone Chemical Co.

LUSTRO-KLEEN, liquid wetcleaning soap, Slater-Robbins Co.

LUXOL, starch lubricant, E. F. Drew & Co., Inc.

LUXOR PLASTIC, transparent garment bags, Rassenfoss Bag Co., Inc.

Me

McDONNELL, boiler water level control, McDonnell & Miller, Inc.

McDONNELL & MILLER, water controls, McDonnell & Miller, Inc.

McELMOL, canvas baskets, canvas shipping containers, McElmoll Chemical Co.

McKEE-ECLIPSE, blowers, boiler feed and return systems, gas burners, controls, Eclipse Fuel Engineering Co.

M

MIF, pipe fittings, Malleable Iron Fittings Co.

M-K-O, automatic boiler feed systems, Mearns-Korb, Okla., Inc.

M. L. 2, waterproof cemented leather belting and d. using, Milwaukee Leather Belting Co.

M&M, boilers, level controls, McDonnell & Miller Co.

M. S. A., first-aid equipment, safety equipment, salt tablets and dispensers, Mine Safety Appliances Co.

MAGBETH DAYLIGHTS, color matching and daylight lamps, Magbeth Corp.

MAGBETH PH METERS, control equipment, indicators, test kits, Magbeth Corp.

MACHETA AIRFOIL, industrial ventilating fans, Aerovent Fan Co.

MACKS AUTOMATIC SORTER, laundry sorting machine, Triple "M" Inc.

MAFORCO, fur storage equipment, racks, Market Forge Co.

MAGIC, double collar support, J. W. Steele & Co.

MAGIC, rug measuring table, Moore's Time-Saving Equipment Co.

MAGIC CORNER, boxes, Sutherland Paper Co.

MAGNET INKSTICK, ink eradicator, Nu-Pro Mfg. Co.

MAGIC-SEAL, shirt bands, Century Paper Products

MAGNA SILVER, cover cloth, Magia Products

MAGNESOL, adsorptive filter powder, Westvaco Chemical Div., Food Machinery & Chemical Corp.

MAGNETROL, liquid level controllers, Fred H. Schaub Engineering Co., Inc.

MAGNETTE, circuit breakers, Heinemann Electric Co.

MAGNISNET, a type of free vane air-operated controller, Bristol Co.

MAGNUS, cleaning materials, Magnus Chemical Co., Inc.

MAJESTIC, drycleaning units, Indiana Mfg. Co., Inc.

MAJESTIC, steel steam boilers, Ames Iron Works

MAJOR, lubricators, Lunkenheim Co.

MAMMOTH CASCADE, laundry washer, American Laundry Machinery Co.

MANNHARTMAN, belt hose, tank lining, Raybestos-Manhattan, Inc.

MANISOLV, prespinner, Merson Products Co.

MANITOWOC, drycleaning tumbler and unit, Manitowoc Engineering Corp.

MARATHON, ironing tape and feed ribbons, asbestos ironer covers and pads, black nylon cloth, Benwall Mfg. Co., Inc.

MARCELENE, detergent, penetrant, Marcele Chemical Products Corp.

MARCO, hot-water heaters, storage heaters, feed-water heaters, oil separators, Marshall Heater Co.

MARCO, racks, lighting fixtures, Cleaners Sales & Equipment Corp.

MARINE, grease cups, Lunkenheim Co.

MARIONETTE, shirt bands, Marion Mfg. Co.

MARMOGRAPH, marking machines, marking ink, George Steigler Co.

MARK-O-INK, indelible marking ink, Mark-O Corp.

MARK-O-PEN, indelible marking pen, Mark-O Corp.

MARK RITE, tags, Lewis National Corp.

MARLEX, corrosion inhibitor, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Graphite Corp.

MAR-MAK, rug drycleaning machine, Mar-Mak Machinery Mfg. Co.

MARMON-HERRINGTON, all wheel drive truck, Marmon-Herrington Co., Inc.

MAROSAL, rising aid, Minnesota Chemical Co., Inc.

MARSH, valves, Jas. F. Marsh Corp.

MARSHALL'S, spotters, Marshall Co.

MARTEX, non-slip composition flooring, treads, American Abrasive Metals Co.

MARTINIZING, drycleaning system, Martin Equipment Co., Div. American Laundry Machinery Co.

MARVA, scrubbing soap, Marvella Corp.

MARVEL, cotton padding, canvas cement, Pittsburgh Waterproof Co.

MARVEL, ink remover, Keystone Aniline & Chemical Co., Inc.

MARVEL, laundry, drycleaning equipment, Marvel Mfg. Co.

MARVEL, marking machine, foot-powered staplers, indelible marking ink, Marvel Marking Machine Co.

MARVELCLEEN, synthetic drycleaning soap, Treco Chemical Div., Tri-State Equipment Co.

MARVELLA, rubber enamel, rubber glass and rubber enamel floor resurfacing materials; rubber glass and rubber paint, rug shampoo, wax and oil remover, upholstery shampoo, Marvella Corp.

MARVELO, built soap powder, West Side Corp.

MARVEDO, drycleaning soap, Nu-Pro Mfg. Co.

MASONELLAN, steam plant equipment, Mason-Neelan Regulator Co.

MASS PRODUCTION CURTAIN DRYER, 3-way curtain drier, National Dryer Mfg. Co.

MASTER, drying tumblers, Hammond Laundry-Cleaning Machinery Co.

MASTER, glove cleaning soap, Keystone Aniline & Chemical Co., Inc.

MASTER, lint brush, Master Products Co.

MASTER, presses, laundry and drycleaning equipment, Master Machinery Co.

MASTER, sleeves, solder, Force Equipment Corp.

MASTER, soaps, Lasco Supply Co.

MASTER, valves, W. M. Chase Co.

MASTER-BILT, washers, B & G Machinery Co., Inc.

MASTER BRAND, batters' equipment, supplies, Maxant Button & Supply Co.

MASTER CASCADE, laundry washer, American Laundry Machinery Co.

MASTER CHALLENGER, washer, Miller Laundry Machinery Co.

MASTER CONTROL UNIT, steam system, Velocity Steam Production Engineering, Inc.

MASTER DRY CLEANERS, paste drycleaning soap, Keystone Aniline & Chemical Co., Inc.

MASTER KING, net pins, Key-Davis Co.

MASTER SEAL, self-seal shirt bands, Package Masters, Inc.

MASTER SELF-SEAL, shirt bands for advertising messages, Package Masters, Inc.

MATCHLESS, latwork ironers, Prosperity Co., Inc.

MATCHLESS, monorail trolley, Chisholm-Moore Hoist Corp.

MATEER, extractors, Western Laundry Machinery Co.

MAXANT MASTER, pleating machine, Maxant Button & Supply Co.

MECLASOL, washroom detergent, Carlton Chemical Co., Inc.

MECOLOID, colloidal clay compound, H. Kohnstamm & Co., Inc.

MEHL, transparent bags, Mehl Mfg. Co.

MEMO TAGS, pre-printed instruction tag, Larton Products Co., Inc.

MENDECK, tabs and tapes for repairing, marking, Mendex Corp.

MEND-MASTER, machines for applying tapes or tabs, Mendex Corp.

MENTOR BEADS, synthetic detergent, Colgate-Palmolive-Peet Co.

MERASOL, drycleaning soap, R. R. Street & Co., Inc.

MERCO-BRITE, fluorescent dye, Merchants Chemical Co.

MERCURY, petroleum cleaning systems, filters, tumblers, Mercury Cleaning Systems, Inc.

MERCURY, presses, Troy Laundry Machinery Div., American Machine & Metals, Inc.

MERCURY, soaps, detergents, Theobald Industries

MERMAID, break powder, Los Angeles Soap Co.

MERSON, soaps, strippers, Merson Products Co.

MERTEX, drycleaning soap, Merson Products Co.

METALASTIC, packings, Metalastic Mfg. Corp.

METALLATE, laundry chemicals, Diamond Alkali Co.

METEOR, electric hoist, Chisholm-Moore Hoist Corp.

METRO, delivery truck bodies for light, bulky loads, Metropolitan Body Co., Inc.

METSO, detergents, Philadelphia Quartz Co.

METSO 88, rug cleaner, Philadelphia Quartz Co.

METSO 88, silicate-type cleanser, Philadelphia Quartz Co.

METSO GRANULAR, sodium metasilicate, Philadelphia Quartz Co.

METSO 99, sodium sesquiosulfate, Philadelphia Quartz Co.

MEXICAST, plastic refractory concrete, Mexico Refractories Co.

MEX-LOX, jointing material, Mexico Refractories Co.

M-3, insulating firebrick, Mexico Refractories Co.

MICRO-KLEAN, filters, Cuno Engineering Corp.
MICROMET, rust and corrosion preventative, Calgon, Inc.
MIDCO, flameproofing agent, Merson Products Co.
MIDGET, continuous towel cabinet, Steiner Sales Co.
MIDGET, controls, Morehead Mfg. Co.
MIDGET, static eliminator for industrial machinery, Simco Co.
MIDGET KING, marking pins, Keyes-Davis Co.
MIDGET-MATIC, laundry washers, Hammond Laundry-Cleaning Machinery Co.
MIDGET PERFECTION MARKER, marking machine, Perfection Marking Machine Co.
MIDIFORM, all-around spotter, Merson Products Co.
MIDWEST, stainless steel washer, Mid-West Machine & Tool Co.
MILCO, colorback (for restoring color to faded fabrics), shampoo, A. O. Miller & Co.
MILDEW-CHEK, mildew preventative, Chek Products, Inc.
MILDEX, mildewicide, Patek & Co.
MILDUSIDE, drycleaning mildew preventative, Cidex Corp.
MILLER, laundry washers, Miller Laundry Machinery Co.
MILLER, lighting fixtures, Miller Co.
MILLICAL, calcium carbonate, Diamond Alkali Co.
MILLSPRAY, insecticide, Keystone Chemical Co.
MILNOR, laundry, drycleaning extractors, washers, Fellerin Miller Corp.
MILQ, drycleaning paste soap, R. R. Street & Co., Inc.
MINCO, tapers, Minnesota Chemical Co.
MINIATURE SLEEVES, sleeve formers, Wichita Precision Tool Co., Inc.
MINI-LINE, pneumatic indicators and controls, Bailey Meter Co.
MIN-IT-SOL, drycleaning soap, Murphy Sales Co.
MINUTE MAN, extractor, presses, Troy Laundry Machinery Div., American Machine & Metals, Inc.
MINUTE MAN, JR., tumblers, Troy Laundry Machinery Div., American Machine & Metals, Inc.
MIRZA, rug cleaning system and machine, rug duster, rug dryroom conveyor, rug drying unit, rug wringer, American Laundry Machinery Co.
MITCO, drycleaning washer, tumblers, J. B. Mitchell Co., Inc.
MIZON, rug cleaning detergent, Fumol Corp.
MKATO, boilers for oil firing, Mears-Knechtel, Inc.
MOBILE HAMPER, clothes cart, R. B. Smith Co.
MOBILMARK, storage bin, marking hopper and marking table, G. H. Bishop Co.
MOCO, drycleaning soap, fabric deodorant, liquid wetcleaner, spotter, dye pads, Package Chemical Co., Inc.
MODINE, unit heaters, coolers, Modine Mfg. Co.
MOELLER, recorders, thermometers, Moeller Instrument Co.
MOFLEX, tire rebuilding and repair materials, Mohawk Rubber Co.
MOGRIFF, tire recapping stock, tire rebuilding materials, Mohawk Rubber Co.
MOGUM, tire recapping stock, tire rebuilding materials, Mohawk Rubber Co.
MOHAWK, padding, Egan Cotton Mills.
MOHAWK, power-driven scraper for removing soot from boiler tubes, Brunt Mfg. Co.
MOHAWK, tallow soap chips and powder, Swift & Co.
MOHAWK, tire recapping stock, tire repair materials, Mohawk Rubber Co.
MOLAFORM, stain remover, Package Chemical Co., Inc.
MONAD G, neutral synthetic detergent, Colgate-Palmolive-Peet Co.
MONARCH, synthetic solvent drycleaning machine, Detra Corp.
MONARCH, washer, American Laundry Machinery Co.
MONARCH, wire staples, Vail Mfg. Co.
MONEL, alloy of nickel and copper, International Nickel Co.
MONELLO, Monel pads for overall presses, Reilly Co.
MONEX, extractor, American Laundry Machinery Co.
MONITE, insured mothproofing, Monite Co., Inc.
MONOBLOC, centrifugal pumps, Worthington Pump & Machinery Corp.
MONO-CHROME, chrome base plastic refractory, Mexico Refractories Co.
MONO-FABRIC, plastic firebrick, Mexico Refractories Co.
MONO-LINE, plastic firebrick, Quigley Co., Inc.
MONOPOLY OIL, sulphated oils, Jacques Wolf & Co.
MONOWASH, package laundry unit, U. S. Hoffman Machinery Corp.
MONTPELIER, truck bodies for laundry and linen supply delivery, Montpelier Mfg. Co.
MOORE, autographic register, Moore Business Forms, Inc.
MOORE, trolley conveyor, Chisholm-Moore Hoist Corp.
MOORES OCTOCLENE, rug cleanser, Moore's Time Saving Equipment Co.
MO-REX, dry press firebrick, Mexico Refractories Co.
MORHEAT, boiler and steam generators, Morheat Sales Co.
MORLEX, corrosion inhibitor for boiler water and steam, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.

MOROCCO, rug sizings, National Starch Products, Inc.
MORSE, drum plug wrench, drum dispensing racks, bottle tipplers, drum hand trucks, Morse Mfg. Co., Inc.
MORTEMOTH, triple-strength crystal and spray insecticide, Mortemoth Chemical Laboratories
MOTH-ASEPTIC, mothproofing germicide, Permaseptic Corp.
MOTH-CHEK, mothproofing agent, Chek Products, Inc.
MOTHPROFITE, insecticide, mothproofing concentrate, Mortemoth Chemical Laboratories
MOTH-SAN, mothproofing agent, Huntington Laboratories, Inc.
MOTH SEAL, storage bags, Lincoln Bag Co., Inc.
MOTH SECTOL, dual-action moth spray, Fumol Corp.
MOTOPUMP, water supply pump, Yeomans Bros. Co.
MOTOR PUMP, solvent and water pump, Ingersoll-Rand Co.
M. P. 189, wetting and dispersing agent, Lewis National Corp.
MRS. STEWART'S, liquid bluing, Luther Ford & Co.
M-20, M-23 and M-20, insulating firebrick, Mexico Refractories Co.
MULSOLITE, lubricant, spotter, penetrant, R. R. Street & Co., Inc.
MULSOL-K, overall cleaner, Laundry Chemicals
MULTI-CLEAN, rug scrubbing equipment, rug and upholstery shampoo, Multi-Clean Products, Inc.
MULTI-CUSHION, felt padding, Pittsburgh Waterproof Co.
MULTIFLEX, calcium carbonate, Diamond Alkali Co.
MULTIGRAPH, hand-operated duplicating machine, Addressograph-Multigraph Corp.
MULTIGRIP, floor plates, U. S. Steel Co.
MULTITHERM, air-conditioning units, Clarge Fan Company
MULTI-V DRIVE, V-belt drives and sheaves, Worthington Pump & Machinery Corp.
MUND'S, inclined water tube boiler, Mund Boilers, Inc.
MUNDO, spot beaters, D. J. Murray Mfg. Co.
MUROZA, leather cleaning and sterilizing system, American Laundry Machinery Co.
MURPHY'S drycleaning soaps, oil soaps, Phoenix Oil Co.
MW 50, asbestos furnace cement, Philip Carey Mfg. Co.
MYRA water softeners, Hungerford & Terry, Inc.
MYSTRON, drycleaning unit, U. S. Hoffman Machinery Corp.

N

N-C, staples, stapling machines, Neva-Clog Products Co.
N.C.S., drycleaning soap, National Cleaners Chemical Mfg. Co.
N-L, plastic impregnated tags, Inc. Wm. J. Nicholson Laboratories
N-M-D, globe, angle, check and quick operating valves, Lunkenheimer Co.
N. P., stain remover, Nu-Pro Mfg. Co.
N-P, enzymatic digester, George E. Mead Co.
NACCONOL, synthetic organic detergent, National Aniline Division, Allied Chemical & Dye Corp.
NABOL, small oil burners, National Airoil Burner Co., Inc.
NAJORT, laundry washers, R. Ewing & Sons, Inc.
NALCATE, resins, ion exchangers, National Aluminate Corp.
NALCO, heating units for driers, North American Electric Lamp Co.
NALCO, water-treatment chemicals, National Aluminate Corp.
NALOX, nail polish remover, Warco Laboratories
NAMCO, boiler compound, dry and wet water repellents, fabric finishing compounds, Namco Chemical Corp.
NAMICO, alkali compounds, laundry silk and woolen soap, National Milling & Chemical Co.
NAPOLENE PASTE FILTER SOAP, drycleaning soap, Keystone Aniline & Chemical Co., Inc.
NAPSEPTIC, sour, E. F. Drew & Co., Inc.
NAPSOAP 40, 60, laundry soaps, E. F. Drew & Co., Inc.
NAPSOID, alkali compound, special detergents, E. F. Drew & Co., Inc.
NAPSOLV, spotting agent, E. F. Drew & Co., Inc.
NAPSO, medium-titer powdered built soap, E. F. Drew & Co., Inc.
NAPSO 22, oil built soap, E. F. Drew & Co., Inc.
NAPSOBUR, sour, E. F. Drew & Co., Inc.
NAPSUDS, rug and carpet soap, E. F. Drew & Co., Inc.
NAPTEEN, oil built soap, E. F. Drew & Co., Inc.
NAPTHOLE, alkali compound, special detergents, E. F. Drew & Co., Inc.
NAPTHOLE, ironer oil, E. F. Drew & Co., Inc.
NAPTHOLE B, medium-high pH detergent, E. F. Drew & Co., Inc.

NAPTONE, complete laundering detergent, E. F. Drew & Co., Inc.
NAPWAX, ironer wax, E. F. Drew & Co., Inc.
NASHUA, double-face flannel, Nashua Textile Co.
NASHUA, package sealing machine, Nashua Package Sealing Co.
NATCO, instantaneous indirect-fired water heaters, National Combustion Co.
NATIONAL, boiler steam protector, National Boiler Protector Co.
NATIONAL, cash registers, accounting machines, National Cash Register Co.
NATIONAL, driers, stretchers, drying cabinets, tumblers, National Dryer Mfg. Co.
NATIONAL, identification systems, labels, seals, price lists, tags, National Tag & Label Corp.
NATIONAL, marking equipment, marking ink, belt conveyors, National Marking Machine Co.
NATIONAL, soot remover and rust-preventative treatment, National Chemical Sales Co., Laboratory, Inc.
NATIONAL AIROIL, oil burners and gas burners, National Airoil Burner Co.
NATIONAL LANG, listing machines, National Marking Machine Co.
NATIONAL REWEAVING SERVICE, reweaving equipment, Wonder Weavers
NATIONAL TATPER, sealing machine, Nashua Package Sealing Co.
NATIONAL TRUCK LEASING SYSTEM, truck leasing and rental services, National Truck Leasing System
NAT-M-100, marking-machine supplies, National Marking Machine Co.
NEATS OIL, belt dressing, Webb Belting & Supply Co.
NEBULITE, oil-gas burner, Anthony Co.
NECCHI, sewing machines, Necchi Sewing Machine Sales Corp.
NEET, printed crush-proof shirt packaging, Market Industries, Inc.
NEET, shirt package, Patek & Co.
NEM-A, shirt-folding machine, J. W. Steele & Co.
NEO-SHINE, wax, Huntington Laboratories, Inc.
NEOTEX, specialty soap, Turco Products, Inc.
NEPTUNE, leather belt cement, Graton & Knight Co.
NE-TO, starch, A. E. Staley Mfg. Co.
NEUTACID, sour, Lewis National Corp.
NEUTRA-LENE, deodorant neutralizer, Davies-Young Soap Co.
NEUTRA LUSTRE, for rug cleaners, Standard Chemical Sales Co.
NEUTRASOL, synthetic detergent, Lewis National Corp.
NEUTRASUDS, flake or powder, high-titer tallow soap compound, E. F. Drew & Co., Inc.
NEUTRATAX, sour, Lewis National Corp.
NEUTRATINT, sour, Lewis National Corp.
NEUTRO, sour, Turco Products, Inc.
NEUTROGEN, sour, Lewis National Corp.
NEUTRONAP, sour, E. F. Drew & Co., Inc.
NEUTROPHOR, laundry neutralizer and whiter, Carlton Chemical Co., Inc.
NEUTROSAP, neutral laundry soap, Carlton Chemical Co., Inc.
NEUTROTONE, detergent, Endriss Chemicals, Inc.
NEVA-CLOG, stapling machines, wire staples, Neva-Clog Products, Inc.
NEVA-SLIP, pants clip, Commercial Tag Co.
NEVASTANE, lubricant, Keystone Lubricating Co.
NEVER-SLIP, collar protectors, Phoenix Products Co.
NEVERSLIP, tie hangers, Memphis Hanger Co. & Pittsburgh Hanger Co.
NEVERSTRETCH, feed ribbon, Southern Mills, Inc.
NEW DEPARTURE, ball, radial and thrust bearings, New Departure, Div. General Motors Corp.
NEWHOUSE, spotting guns, brushes, counter racks, sleeve formers, press pad, spotting noses, sleeve boards, wetcleaning aprons, Newhouse Corp.
NEWMAN, watchmen's clocks, Detex Watch-clock Corp.
NEW-MATIC, presses, New York Pressing Machinery Corp.
NEW NO. 3 CLEANER, for cleaner, Nycco Products Co.
NEW YORKER, drycleaning, laundry presses, New York Pressing Machinery Co.
NIAGARA, chemical, oil and water meters, Buffalo Meter Co.
NIAGARA, filter screens, Niagara Filter Corp.
NICE, ball and thrust bearings, Nice Ball Bearing Co.
NICHOLSON, strainers, floats, traps, W. H. Nicholson & Co.
NILES, steel drums, Republic Steel Corp.
9000 SERIES, steel-framed two-wheel hand trucks, Fairbanks Co.
NI-ROD, electrode for machinable welds, International Nickel Co., Inc.
NISSEN, dye and bleach resistant color-marking and writing tube, John P. Nissen, Jr. Co.
NO-BAK, ironer, Zephyr Laundry Machinery Co.
NO-CHILD, spotting agent, Nu-Pro Mfg. Co.
NO-DARN, mending iron, No Darn Co.
NO-EFFORT, handkerchief and napkin press and handkerchief buffer, American Laundry Machinery Co.
NOEX, petroleum solvent drycleaning unit, drycleaning tumbler, American Cleaners Equipment Co., Div. American Laundry Machinery Co.

NO-FLAM-O, flame-proofing for fabrics, Namco Chemical Corp.

NOKORODE, dycleaning, laundry press pads, Sublo Corp.

NO-KRUSH, garment carrier, U. S. Hoffman Machinery Corp.

NOLA TOILET SOAP, soaps, Iowa Soap Co.

NO LAX, spotting agent, Warco Laboratories

NO LINE, fabric preservatives and conditioner for linen supplies, Namco Chemical Corp.

NO-MAR TREATMENT, stain and water repellent, Paper Chemicals, Inc.

NO-MIX, bundle separator, Rosenthal Mfg. Co.

NO-MIX, identification system, Checking System Co.

NOMOLD, mold preventative, H. Kohnstamm & Co., Inc.

NON-CRUSH, shirt carriages, Time Savers, Inc.

NON-FER-AL, calcium carbonate, Diamond Alkali Co.

NON-IONIC, fabric conditioner, Namco Chemical Corp.

NON-SHIRT, wire garment hanger, Para-Lux Products Co.

NON-SKID, floor tiles, Virginia Greenstone Co., Inc.

NON X.L., water repellent, Boston Clip & Tag Co.

NORCO, meters, timers and control devices, Norman Control Co.

NORIT, activated carbon, L. A. Salomon & Bro.

NORTH STAR, fur cleaning compound, Walter Haertel Co.

NORUST, laundry sour, Washine National Sands, Inc.

NOR-WIL, press covers, asbestos covers, Norton & Williams, Inc.

NORWOOD CASCADE, washer, American Laundry Machinery Co.

NO-SAG, laundry marking fountain pen, Cleaners Specialties Supplies Co.

NOSOK, non-enzymic digester, spot remover, George E. Mead Co.

NO STARCH, conditioner and finishing aid for shirt laundries, Namco Chemical Corp.

NO-STRING MARK, tape device for flatwork presses, Rosenthal Mfg. Co.

NOYASTANE, lubricant, Keystone Lubricating Co.

NO-THREAD, compression fittings, Dresser Mfg. Div. Dresser Industries, Inc.

NOTRUX, mechanical loading and unloading extractor, American Laundry Machinery Co.

NO-VENT, boiler return system, David Stout & Sons

NUCHLOR, chloroform substitute, Nu-Pro Mfg. Co.

NU-CLEANING, synthetic dycleaning unit, U. S. Hoffman Machinery Corp.

NU-COAT, glove and leather finish, National Cleaners Chemical Mfg. Co.

NU-DI, leather dye, Nu-Pro Mfg. Co.

NU-FLO, laundry sour, Johnson Chemical Industries, Inc.

NU-FLUO, economy sour, Johnson Chemical Industries, Inc.

NU-FLUO EXTRA, sour for high bicarbonate water, Johnson Chemical Industries, Inc.

NU-LUS, leather dressing, neutral, Nu-Pro Mfg. Co.

NUMBERETTE, hand numbering machine, American Numbering Machine Co.

NUMBER 8, 11, 33, blues, Lewis National Corp.

NUMBER 4, blue, stripper, Lewis National Corp.

NUMBER 44, blue, Minnesota Chemical Co.

NUMBER 209, general formula, R. R. Street & Co., Inc.

NU-NAP, rug cleaner, Certified Chemical & Equipment Co.

NUDEX 87, mildew preventative, Nuodex Products Co., Inc.

NU-PAL, lint remover, Perma Products Co.

NU-PRO, ink and stain remover stick, Nu-Pro Mfg. Co.

NU-SHEN, dyeing service, Onaka Dye Works

NU-SHENE, special alkali compounds, Dyre Co.

NU-SO, detergent, Nu-Pro Mfg. Co.

NU-SOL, soap builders, Thompson-Hayward Chemical Co.

NU-SOLVO, spotting agent, Nu-Pro Mfg. Co.

NU-SUDE, suede finishes, Eaton Chemical & Dyeing Co.

NU-TEX, dycleaning soap, Nu-Pro Mfg. Co.

NU-TEX-TIZE, dycleaning detergent, Nu-Life Mfg. Co.

NUTRA SUDS, neutral soap flakes, E. F. Drew & Co., Inc.

NUTROL, synthetic wetcleaner, Keystone Aniline & Chemical Co., Inc.

NUTRONAP, sour, E. F. Drew & Co., Inc.

NUTTING, die trucks, casters, wheels, Nutting Truck & Caster Co.

NU-WAX, liquid filter soap, Davies-Young Soap Co.

NU-WOOD, insulation board, Wood Conversion Co.

NYCCO, moth preventatives, Nycco Products Co.

NYCCO, prepared fur dyes, Nycco Products Co.

NYLCOT, laundry net, Southern Mills, Inc.

NYL-EON, nylon covers and cloth, G. S. Robins & Co.

NYLO, filter and laundry bags, press covers and cloth, X. S. Smith, Inc.

NYLO-DUK, "Hydrator" slings, F. H. Bonn Co.

NYLONETS, nylon laundry nets, X. S. Smith, Inc.

NYLOTEX, nylon press covers, X. S. Smith, Inc.

NYLSEW, nylon sewing thread, Heminway & Bartlett Mfg. Co.

NYOTEX, cotton-nylon nets, R. Lally Co.

NYTEX, press pads and covers, R. Lally Co.

NY-WUL, press covers, Stadham Co., Inc.

O

O.I.C., all types valves, Ohio Injector Co.

O.T., laundry-dycleaning extractors, American Cleaners Equipment Co., Div. American Laundry Machinery Co.

OAKITE, detergent, Oakite Products, Inc.

OAKITE COMPOUND NO. 32, scale and rust remover, Oakite Products, Inc.

OAKITE PENETRANT, detergent, Oakite Products, Inc.

OASIS, drinking-water cooler, Elco Mfg. Co.

OBARK, leather belting, waterproof leather belting, Charlotte Leather Belting Co.

OBLITO, stain remover, H. Kohnstamm & Co., Inc.

O'BRIEN, water storage heaters, O'Brien Steam Specialty Co., Inc.

OCOCO, extractor baskets, Ohio Centrifugals Co.

ODT-CLEAN, detergent, Moore's Time-Saving Equipment Co.

ODO-STICK, garment odor remover in stick form, Nu-Pro Mfg. Co.

OFFELDT, boiler, Means-Kane-Ofeldt, Inc.

OILGO, concentrated spotting agent, Carman & Co., Inc.

OILITE, self-lubricating bearings, machine parts, Asplund Div., Chrysler Corp.

OIL-KLEEN, oil remover, Keon Laboratories

OIL-MIST, automatic lubrication systems, Alemito Div. Stewart-Warner Corp.

OIL-RITE, oil cups, oilers, Oil-Rite Corp.

O.L. CORN STARCH, corn starch, Hoberger Co.

OLATE FLAKES, low-titer soap, Procter & Gamble Distributing Co.

OLIVE C, soap, Stadham Co., Inc.

OLYTES, detergent, Cowles Chemical Co.

OLIVULO, toilet soaps, Allen B. Wrisley Co.

OLSENMARK, marking inks, marking machinery, stamping presses, Olsenmark Corp.

OLSON, pressure filters, solvent stills, Olson Filtration Engineers, Inc.

OLSON KURB SIDE, aluminum package delivery body, J. B. E. Olson Corp.

OLYMPIC, extractor, Troy Laundry Machinery Div., American Machine & Metals, Inc.

OMNI-SOUR, laundry sour, Carlton Chemical Co., Inc.

140-F, safety petroleum dycleaning equipment, U. S. Hoffman Machinery Corp.

ONE-LAY, shirt finishing machine, J. W. Steele & Co.

ONE SHOT, writing ink remover, Eaton Chemical & Dyeing Co.

ONE-SPOT, scale, Toledo Scale Co.

1000-00 GUARANTEED, insecticides, B. Heller Co.

ON-THE-SPOT, synthetic dycleaning equipment, A. B. Temple Co.

OPALOID, buttons, Stadham Co., Inc.

OPENETS, laundry nets and fabrics, Davis Mills, Inc.

OP-TOF, extractors, Prosperity Co., Inc.

OPERATIVE TIME-TER, time signals, visual, audible equipment control, Bidwell Mfrs.

OPTO-MATIC, constant lever oilers, Trico Fuse Co.

ORB, wool padding, Orr Felt & Blanket Co.

ORTHOLATE, laundry chemical, Diamond Alkali Co.

ORTHOSILICATE, detergent, Diamond Alkali Co.

ORVUS, wetcleaning detergent, Procter & Gamble Distributing Co.

ORVUS EXTRA GRANULES, synthetic detergent, Procter & Gamble Distributing Co.

ORVUS W. A. PASTE, wetcleaning detergent, Procter & Gamble Distributing Co.

OSPECO, concentrated dycleaning soap, Oil States Petroleum Co., Inc.

O SPOTTER, stain remover, H. Kohnstamm & Co., Inc.

OUTSERTS, package insert, Allied Printing & Stationery Co., Inc.

OXALATE-A, soaps, Standard Chemical Works Co.

OXYFUME, fumigant, Carbide & Carbon Chemical Corp., Unit of Union Carbide & Carbon Corp.

OZITE, insulation, laundry felt, American Hair & Felt Co.

OZONITE, built soap, Procter & Gamble Distributing Co.

P.M., built soap, Thompson-Hayward Chemical Co.

P-R, colorless paint and varnish remover, Caled Products Co., Inc.

PAASCHE, airbrushes, air painting equipment, Paasche Airbrush Co.

PACE, chlorinated solvent soap, Caled Products Co., Inc.

PACIFIC, borax and sodium sesquicarbonate, Columbia-Southern Chemical Corp.

PACIFIC, sour bluing, Beach Soap Co.

PACKLESS, flexible hose, couplings, Packless Co., Inc.

PADRIGHT STEEL WOOL PADDING, press and ironer pads, padding, Padright Co.

PAINT-ICATER, paint remover, W. F. Johnston Products Co.

PAINT-SOLV, paint remover, Huntington Laboratories, Inc.

PAISLEY, general line adhesives, Paisley Products, Inc.

PAK-AGE-KART, packaged work transporter, R. H. Bishop Co.

PAK-RITE, plastic garment bags, cedarized and plain combination bags for shirts, ties, gloves, sweaters, hats, etc., Pak-Rite Flexible Packaging Co.

PAK-TITE, compound, American District Steam Co., Inc.

PALM, palm oil soap, Swift & Co.

PALMETTO, cotton belting, Victor Balata & Textile Belting Co.

PALMOIL, soap, Home Soap Mfg. Co.

PALM ROSE, soaps, Iowa Soap Co.

PAMCO, straight pins, Rudson Mfg. Co.

PANAREX CO., recorder, Permutit Co.

PANTEX RHODES NATIONAL HATTER, hat blocking machine, Pantex Mfg. Co.

PANTS HORSE, trouser rack, R. B. Smith Co.

PAPER-STREET, garment hanger, Star Service Hanger Div., L. A. Young Spring & Wire Corp.

PARACOL, water heaters, Davis Engineering Corp.

PARAGENE, stripper, Eaton Chemical & Dyeing Co.

PARAGON, gas engine lubricators, Lunkenheimer Corp.

PARALATE, alkali compound, Diamond Alkali Co.

PARAMOUNT, garment, trouser bags, hanger covers, Mutual Paper Box Co., Inc.

PARA-SEAL, hanger cover, Para-Lux Products Co.

PARAZOLE, spot remover, Eaton Chemical & Dyeing Co.

PARAZyme, digestive agent, enzyme spotting, Carman & Co., Inc.

PARIS, steam-air garment finisher, Garment Finishing Equipment Corp.

PARIS CONVERTIBLE, steam-air finishers, Garment Finishing Equipment Corp.

PARISIAN, sleeve former, U. S. Hoffman Machinery Corp.

PARIS MASTER FINISHER, steam-air garment finisher, Garment Finishing Equipment Corp.

PARKER, industrial boilers, S. E. Parker Boiler Mfg. Co., Inc.

PARMELEE, wrench, Walworth Co.

PARNOL, detergent, Jacques Wolf & Co.

PARNOL, special alkali compounds, Speare Co.

PERR, typewriter keys, rubber fingertips, Speed Products Co., Inc.

PERROT, binder clips, Speed Products Co., Inc.

PERR-X, stain remover, H. Kohnstamm & Co., Inc.

PETCH MASTER, repair cloth kits, R. D. Bussard & Son

PATEXPAC, printed garment bags, shirt envelopes, Patek & Co.

PATNEX, upholstery shampoo, cleaning compound, Mortemoth Chemical Laboratories

PATNEX FURLIFE, fur shampoo, cleaning compound, Mortemoth Chemical Laboratories

PATRICK, steam iron, Lawrence M. Stein Co.

PATROL, watchmen's clocks, Detex Watch-clock Corp.

PATTERSON-KELLEY, condensers, coolers, Patterson-Kelley Co., Inc.

PAWNEE, alkali soap builder, Wyandotte Chemicals Corp.

PAY-TEX, dycleaning soap for synthetic solvent systems, Patek & Co.

PAYTOL, oil, paint and grease remover, Patek & Co.

PC 450, neutral vegetable potash soap, E. F. Drew & Co., Inc.

PEABODY, gas, oil, coal burners, air heaters, Peabody Engineering Corp.

PEARL, built soap, flake and granulated, Colgate-Palmolive-Fect Co.

PEARLCO, protective coating for metal parts, Watson Standard Co.

PEERLESS, laundry cover cloth, two-ply cover duck, Thomaston Mills

PEERLESS, pumps, Peerless Pump Div., Food Machinery Corp.

PEERLESS, scales, Triner Scale & Mfg. Co.

PEERLESS BEACON, laundry marking tags, Boston Clip & Tag Co.

FEET, white laundry bar soap, Colgate-Palmolive-Fect Co.

PEE-VEL, lacquer remover, Riverside Mfg. Co.

FELLATONE, fur cleaning and finishing compound, Carman & Co., Inc.

FELLERIN-MILNOR, laundry, dycleaning extractors, Fellerin Milnor Corp.

FENBRITE, alkaline detergent, Pennsylvania Salt Mfg. Co.

FENETEX, detergent, Stadham Co., Inc.

P

P.B., laundry marking tags, Boston Clip & Tag Co.

P.D.Q., detergent, Nu-Pro Mfg. Co.

P.F.Q., soap, Nu-Pro Mfg. Co.

P.L.V., variable speed changers, Link-Belt Co.

- PENETRO, jet-action cleaning process, M. Blau Mfg. Co.
- PENETRO, marking ink, National Marking Machine Co.
- PENETROIL, grease solvent, H. Kohnstamm & Co., Inc.
- PENETRON, glue solvent, Better Packages, Inc.
- PENETRON, starch, H. Kohnstamm & Co., Inc.
- PENLO, engine lubricator, Lunkenheimer Co.
- PENNANT, drycleaning soap, Davies-Young Soap Co., Inc.
- PENNSYLVANIA, tires, tubes, batteries, Pennsylvania Rubber Co.
- PENOXONE, bleach, Pennsylvania Salt Mfg. Co.
- PENSAL, alkaline detergent, Pennsylvania Salt Mfg. Co.
- PENSAL-B, alkaline detergent, Pennsylvania Salt Mfg. Co.
- PENSAL-M, alkaline detergent, Pennsylvania Salt Mfg. Co.
- PENSAL-O, alkaline detergent, Pennsylvania Salt Mfg. Co.
- PENSO, spotting agent, A. L. Wilson Chemical Co.
- PEN-TRATE, spotting aid, Kennedy Products Co.
- PEPO, prespotter, Stadham Co., Inc.
- PEPSOL, drycleaning filter soap, A. F. Wolfe Co.
- PER, automatic drycleaning unit, Vic Cleaning Machine Co.
- PERCHLORON, bleach, Pennsylvania Salt Mfg. Co.
- PERCHLOR 600, drycleaning unit, Manitowoc Engineering Corp.
- PERCLEN, drycleaning solvent, E. I. du Pont de Nemours & Co., Inc.
- PERDOL, sodium perborate monohydrate, E. I. du Pont de Nemours & Co., Inc.
- PERFECT, wheat starch, Keever Starch Co.
- PERFECTA, steam and air spotting gun, Florian J. Hyman
- PERFECTION, corn starch, Huron Milling Co.
- PERFECTION, reducing valves, American District Steam Co., Inc.
- PERFECTION, staple tags, Tagit Co.
- PERFECTION, white neutral soap, Beach Soap Co.
- PERFECTO, synthetic powder, National Cleaners Chemical Mfg. Co.
- PERFECT WHEAT, laundry starch, Keever Starch Co.
- PERFEX, controls and regulators, gauges, Perfex Corp.
- PERFEX, press pads, Revillo Co.
- PERK, synthetic drycleaning machine, Pantex Mfg. Co.
- PERKOL, synthetic solvents, Dow Chemical Co.
- PERLITE, soap builder, H. Kohnstamm & Co., Inc.
- PERMAFIBER MARKING, fiber material for manufacturing laundry and drycleaning tags, Fermafiber Corp.
- PERMA-KLEEN, perchlorethylene solvent, Detres Corp.
- PERMA-MARKER, marking kit, Wm. J. Nicholson Laboratories
- PERMA-NET-MARKERS, identification tags, Spare Co.
- PERMA-NETS, rubber washing nets, Spare Co.
- PERMANITE, acid- and alkali-resisting flooring, Maurice A. Knight
- PERMAPROOF, flameproofing agent, B. F. Goodrich Co.
- PERM-ASEPTIC, germicide, fungicide antiseptic, Perm-Aseptic Corp.
- PERM-A-TEX, nylon press covers, X. S. Smith, Inc.
- PERMATIZED, marking tags and tape, indelible marking ink, Wm. J. Nicholson Laboratories
- PERMO, flameproofing, mothproofing agent, Permo Products Co.
- PERMOBOND, rubber-lined tanks, pipe and pipe fittings, U. S. Rubber Co.
- PERMOFAD, pads for handkerchief ironer, Resilio Co.
- PERMOTEX, nylon press covers, X. S. Smith, Inc.
- PERMUTIT, water softeners, filters, Permutit Co.
- PERMUTIT Q, ion exchanger, water conditioner, Permutit Co.
- PERONE, hydrogen peroxide, E. I. du Pont de Nemours & Co., Inc.
- PERSONALIZED, garment bags, Rassendoss Bag Co., Inc.
- PERSPIR-X, perspiration remover, Paper Chemicals, Inc.
- PETAL SMOOTH, starch, Clinton Foods Inc.
- PETRO, oil burners, pumps and beaters, water heaters, Petroleum Heat & Power Co.
- PETRYN, oil, paint and grease remover, Patek & Co.
- PFPAF, sewing machines, Pfaff Sewing Machine Sales Co.
- PHENIX, cotton and nylon press covers, Phenix Supply Co.
- PHILABELT PRESERVATIVE, belt dressing, Philadelphia Belting Co.
- PHILOCO, storage batteries, Philco Corp.
- PHOENIX "SELF STICK", shirt bands, Phoenix Products Co.
- PHOTOSWITCH, timers, pilot relays, controls, Photoswitch, Inc.
- PHOTRONIC, photoelectric cell, Weston Electrical Instrument Co.
- PH-PLUS, briquet alkali for water softening, Mathieson Chemical Corp.
- PICK, water heaters, Pick Mfg. Co.
- PICUM, volatile spotting compound, R. R. Street & Co., Inc.
- PIEDMONT, leather belting, waterproof leather belting, Charlotte Leather Belting Co.
- PILOT, non-waterproof belt cement, Webb Belting & Supply Co.
- PILOTRON, air-operated pilot, Bailey Meter Co.
- PINLUB, wetcleaning soap, Package Chemical Co., Inc.
- PIN-O-TEX, pine oil detergent, Slater-Robbins Co., Inc.
- PIONEER, nylon laundry nets, Benwall Mfg. Co., Inc.
- PIONEER, lint cups, Lunkenheimer Co.
- PISTON-RING, expansion joint, American District Steam Co., Inc.
- PITCHBLOR, calcium hypochlorite, Columbia Southern Chemical Corp.
- PITTSBURGH, paints, Pittsburgh Plate Glass Co., Paint Div.
- PITTSBURGH, wire garment hangers, Pittsburgh Hanger Co.
- PIXALL, lint remover, John E. Coolidge Co.
- PLAHER BRAND, leather belting, Philadelphia Belting Co.
- PLASTIC INSULATION, insulating cement, Menzies Refractories Co.
- PLASTIC QUIK-PACH, plastic firebrick, A. P. Green Fire Brick Co.
- PLASTILON, nylon laundry nets, Carson Textile Co., Inc.
- PLEASANT ODOR, fur cleaning fluid, Bernard Sirotta Co.
- PLEX, digester, Patek & Co.
- PLEXAL, concentrated spotting soap, Caled Products Co., Inc.
- PLIBRICO, jointless firebrick, incinerators, boiler setting, Plibrico Co.
- PLUJET, smoke eliminators, Plubrico Co.
- PLUS, spotter (wet or dry), Adco, Inc.
- PNEU-MAT, woven rubber mat, A. N. Brabrook
- POCKETEERS, pocket forms, Leaf Bros., Inc.
- POENSCEN CAROUSEL, automatic 10-washer counterflow laundering unit, International Laundry Equipment Div., Kurt Orban Co., Inc.
- POLAR BEAR, fur cleaner, Walter Haertel Co.
- POLAR BEAR, fur cleaner, Nycco Products Co.
- POLARIS, fur glazing cleaner, Walter Haertel Co.
- POLARSUDZ, cold-water built soap, Beach Soap Co.
- POLARTONE, laundry sour, G. S. Robins & Co.
- POMONA, turbine pumps, Fairbanks Morse & Co.
- PONCHO, wet water repellent, Patex & Co.
- PONT, laundry presses, Prosperity Co., Inc.
- POOR PETER, pillow, complete pillow cleaning service, R. Lally Co.
- POPKINS, store fixtures, Popkins Fixture Co.
- PORTA-PAK, autographic register, Egly Register Co., Inc.
- PORTO-FAB, prefabricated buildings, Porto-Fab Co., Inc.
- POSITEMP, temperature control for digesters, Cleaners Specialties Supplies Co.
- POSTAGE-METER, postage meter tape, Gummed Tape & Devices Co.
- POW, drycleaning soap, Keystone Aniline & Chemical Co., Inc.
- POWDERED HAWKEYE SOAP, soaps, Iowa Soap Co.
- POWER CIRCLE, presses, Prosperity Co., Inc.
- POWER-FLEX, underfeed stokers, Link-Belt Co.
- POWER-FLEX, rod ventilator, Dröbberat Fans Div., American Machine & Metals, Inc.
- POWERMASTER, automatic steam generator, Orr & Sembover, Inc.
- POWERMASTER, stacker, Lewis-Shepard Products, Inc.
- POWERON, fire-fighting nozzles, American-La France-Foamite Corp.
- POWER-NETTER, permanently mounted horizontal belt conveyor, Rapids-Standard Co., Inc.
- POW PLUS, dry powdered soap, Keystone Aniline & Chemical Co., Inc.
- POWR PLUS, air-operated laundry presses, Panlex Mfg. Corp.
- PRATT & CADY, brass and iron valves, Reading-Pratt & Cady Div., American Chain & Cable Co., Inc.
- FREE-HIET, return systems, Fred H. Schaub Engineering Co., Inc.
- FREE-SPOTTER, concentrated prespotter, Raychem Products Co.
- FREE-HEED, generators, Preferred Utilities Mfg. Corp.
- PRE-MARKED STRIP TAC, solvent- and waterproof marking tag, Pre-Marked Strip Tag Co.
- PREMIER, gas engine lubricators, Lunkenheimer Co.
- PREPACO, antiseptic soap, Lincoln Research, Inc.
- PRESET, a type of free-vane air-operated control, Preset Corp.
- PRES-GRIP, shaping and finishing wetcleaned and dyed garments, Pres-Grip Corp.
- PRESO, heavy prespotter, G & G Chemical Co.
- PRE-STEER, heavy-body prespotter, Caled Products Co., Inc.
- PRESPOTTER 3, prespotter, Nu-Pro Mfg. Co.
- PRESPOTTER 23, prespotter, Patek & Co.
- PRESS KING, laundry press pads, Folio Corp.
- PRESS MASTER, electric steam generator, Automatic (Sussman) Steam Products Corp.
- PRESSTITE, flexible metal connector for modern laundry and pressing machines, American Brass Co., American Metal Hose Branch.
- PRESTO, self-sealing paper bands, Sure-Hold Div., Nashua Gum & Coated Paper Co.
- PRESTO CLEANER, press-head cleaner, Stadham Co., Inc.
- PRESTOPRESS, air-operated drycleaning presses, Goldman Pressing Machine Corp.
- PRIDE, washing powder, Swift & Co.
- PRIMA BRAND, leather belting, Philadelphia Belting Co.
- PRIME SOAP, soap, Beach Soap Co.
- PRIMS COVER A BUTTON, button molds, William Pym, Inc.
- PRINCESS, wire hangers, Vail Mfg. Co.
- PRINTWEIGH, weight printing scales, Toledo Scales Co.
- PROCTOR & SCHWARTZ, automatic shampooing and drying systems for rugs, Proctor & Schwartz, Inc.
- PRODUCTIMETERS, counting machines, Durant Mfg. Co.
- PRODUCTO, timer, American Laundry Machinery Co.
- PROLITE, enzymic digestive agent, Allen & Vickers, Inc.
- PROPASOL, solvent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
- PROSHERITY, complete line of laundry and drycleaning equipment, Prosperity Co., Inc.
- PROSPERITY APRONS, clipper and alligator F.W.I. aprons, Carman & Co., Inc.
- PROSPERITY BLUE, concentrated laundry blue, Prosperity Co., Inc.
- PROSPERITY, automatic washer controls, Prosperity Co., Inc.
- PROSPOWAX, powdered F.W.I. wax, Carman & Co., Inc.
- PROTECTO, identification systems, American Laundry Machinery Co.
- PROTECTOGRAPH, checkwriters, check signers, Vickers, Inc.
- PROTECTOR, colored fabric pick-up bags, F. H. Bonn Co.
- PRO-TEK, protective hand cream, E. I. du Pont de Nemours & Co., Inc.
- PROTEX TOILET SOAP, soaps, Iowa Soap Co.
- PRYM'S, garment hangers, safety pins, William Prym, Inc.
- PRY hand stapler, Arrow Fastener Co.
- PUR-FINISHER, garment finisher, G. H. Bishop Co.
- PULLCLEAN, continuous towels cabinets, Pull-clean Towel Cabinet System
- PULVONAX, powdered wax, Lewis National Corp.
- PURATIZE, mildewproofing, Aqua-Sec Corp.
- PURE-TEK, laundry bactericide, Cidex Corp.
- PURGE-O-SOL, drycleaning soap, G & G Chemical Co.
- PURGO, soap builder, Minnesota Chemical Co.
- PURITY, soap flakes, soap, Iowa Soap Co.
- PURITY, soap, Thompson-Hurward Chemical Co.
- PURKETT, shakeout and conditioning tumblers, assembly reels, bins, Purkett Mfg. Co.
- PURO, spotting compound, Adco, Inc.
- PUR-O-CEL, filter, Proportioners, Inc.
- PUR-O-SAN, drycleaning soap, Huntington Laboratories, Inc.
- PURPLE EDGE, padding, Egan Cotton Mills.
- PYRAMID, laundry nets, R. Lally Co.
- PYRAMID, liquid color stripper, Washine National Sand, Inc.
- PYRATLEX, lipstick, nail polish, paint remover, R. R. Street & Co., Inc.
- PYRENE, fire extinguishers, Pyrene Mfg. Co.
- PYRO, surface thermometer, Pyrometer Instrument Co., Inc.
- PYROFLEX, acid and alkali resisting paints, Maurice A. Knight
- PYRO, liquid soap, National Cleaners Chemical Mfg. Co.
- PYRO-SOAP, wetcleaning soap, National Cleaners Chemical Mfg. Co.
- PYROTRON, resistance thermometer, Bailey Meter Co.

QUICK AID, linen fire hose, fire extinguishers, General Detroit Corp.
QUICK BREAK, break powder, Wyandotte Chemicals Corp.
QUICK ELASTIC, liquid and powdered starch, Hubinger Co.
QUICKLIFT, trucks, Lewis-Shepard Products, Inc.
QUIGLEY, fire brick, Quigley Co., Inc.
QUIK-CUT, wrapping table, Coffman Mfg. Corp.
QUIK-CUT, wrapping table, Norman Control Co.
QUIK-LOK, shirt boxes and collar supports, Century Paper Products
QUIK-PACH, fire brick, A. P. Green Fire Brick Co.
QUIK STEAM, press, Butler Mfg. Co.
QUIKTAG, laundry marking tag, Boston Clip & Tag Co.
QUIK-TEMP, heating system, Fred H. Schaub Engineering Co., Inc.

B

B.C.C., rug cleaning and finishing compound, s.o.p.s., Lewis National Corp.
B.C.U., rug and upholstery soap, Keystone Aniline & Chemical Co., Inc.
B.P.C., stain remover, Riverside Mfg. Co.
B-K, valves and regulators, Ruggles, Klingemann Mfg. Co.
B-M, asbestos products, packing friction materials and rubber products, Raybestos-Mahaffey, Inc.
B.F., high pressure boiler, Titusville Iron Works Co., Div. Struthers Wells Corp.
B.P.C., valves, Reading-Frost & Cady Div., American Chain & Cable Co., Inc.
B.S., digestive spotting agent, Wallerstein Co., Inc.
B-L, spotter, Caled Products Co., Inc.
BACULITE, chemical feeders, water rectifier, Rathbun Co.
RADIANT, continuous tumbler, Radiant Drying Co.
RAINBOW, marking tag, Triple "M" Inc.
RAINBOW, plastic garment hangers, Henry Hanger Co. of America
RAINBOW, spotting pencils, Eaton Chemical & Dyestuff Co.
RAK-GUIDE, rack index for separating garments alphabetically, Para-Lux Products Co.
RAM, drycleaning soap, Adco, Inc.
RAMPELLENT, water repellent, Perm-Aseptic Corp.
RAMFLEX, detergent, Perm-Aseptic Corp.
RAMSEY, chain drive, chain drive sprockets, shaft couplings, Ramsey Chain Co., Inc.
RANTITE, plastic refractory, Ramtite Co.
RANAREX, combustion recorder, Permutit Co.
RANDE, metal press pads, Bergen Machine & Tool Co., Inc., Rande Unit Springs Div., Hercules Filter Corp.
RAPID POWER BOOSTER, portable power belt conveyor, Rapids-Standard Co., Inc.
RAPID ROLLER, conveyor, Rapids-Standard Co., Inc.
RAPID-WHEEL, conveyor, Rapids-Standard Co., Inc.
RAPISTAN TABLE-VEVOR, belt conveyor to facilitate general handling of laundry bundles, Rapids Standard Co., Inc.
RATHBUN, water softeners and filters, water softening equipment, Rathbun Co.
RAY, oil and gas burners, pumps, Ray Oil Burner Co.
RAYBESTON, brake lining, clutch facing, brake blocks, Raybeston-Manhattan, Inc.
RAY-METL, clutch facings, Raybeston-Manhattan, Inc.
RAYOSAPOL, moisture-bearing drycleaning soap, Raychem Products Co.
WAYS, tape, Spear Box Co., Inc.
WAYS KRAFT, packaging supplies, Spear Box Co., Inc.
RAYTEN, cold-water soap, John T. Stanley Co., Inc.
READY-PACK, cast split repair sleeves, Dresser Mfg. Div., Dresser Industries, Inc.
RECEIV-O-MARKER, identification systems, Best Form Co.
RE-CIRK-IT, circuit breakers, Heinemann Electric Co.
RECLAMITE, stain remover, H. Kohnstamm & Co., Inc.
RECORDAK, accounting machines and systems, record systems, Recordak Corp.
RED ARROW, feed ribbon, Southern Mills, Inc.
RED CHIEF, rubber belting, Webb Belting & Supply Co.
RED EDGE, pads and padding for flatwork ironers and press machines, Knitted Padding Mfg. Co.
RED FLASH, water heaters, Pick Mfg. Co.
RED & GREEN LINE, laundry fabrics, Hettrick Mfg. Co.
REDI-CUT, flannel press pads, F. H. Bonn Co.
REDILIFT, trucks, Lewis-Shepard Products, Inc.
REDI-MARK, strip tags, Pittsburgh Tag Co.
REDI-TAG, pre-printed marking tag, Larton Products Co., Inc.

RED LABEL, tallow soap, Beach Soap Co.
RED LINE, flatwork ironer aprons, Pittsburgh Waterproof Co.
RED LINE, garment drier, Hopkins Equipment Co.
RED LINE, greases, oils, lubricants, Union Oil Co. of California
REDOTEX, neutral red oil flakes and powder, Allen B. Wrisley Co.
RED STAR, diapers, towels and toweling, George Wood, Sons & Co.
RED STAR, feed ribbons, New York Belting & Packing Co.
REDUCO, liquid color stripper, Washine National Sands, Inc.
REDUCTORS, speed reducers, Boston Gear Works, Inc.
REDUX, indelible ink remover, Boston Clip & Tag Co.
REESCO, powdered laundry soap, Minnesota Chemical Co., Inc.
REEVES ARMY TWILL, uniform cloth, Reeves Brothers, Inc.
REFINEX 1, zeolite cleanser and reconditioner, Refinite Corp.
REFINITE, zeolite water softeners, Refinite Corp.
REFLEXIT, plasticizer, Patek & Co.
REGAL, engines, Ames Iron Works
REGAL, laundry, indelible ink, J. Geller & Son
REGAL, neutral synthetic detergent, Armour & Co.
REGENT, 30-pound synthetic drycleaning unit, Detrex Corp.
REINTJES, dependable arches, suspended walls, Reintjes Co.
REKAB, powdered soap, soap chips, Minnesota Chemical Co.
RELIABLE, fur cleaning and fur storage equipment, Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc.
RELIANCE, a.c. and d.c. motors, motor generators, Reliable Electric & Engineering Co.
RELIEF, spotter, Murphy Sales Co.
RE-LOGIC, powdered soap, Minnesota Chemical Co.
REMA, vacuum systems for presses, Rema Corp.
REMO, cover-cloth fasteners, rack clips, net and marking pins, tool, soap and steel pins, overall tags, Risdon Mfg. Co.
RENARDS, leather cleaning and dyeing, Renards' RENEWOL, angle, check and globe valves, Lunkenheimer Co.
RENEK, detergents, Industrial Chemicals Dept. (Atlas Powder Co.)
RE-NU, potash saponified resin and fatty acids, Amnest & Co.
RENTIT, liquid starch, Washine National Sands, Inc.
REO, motor trucks, Reo Motors, Inc.
RE-PEL, water repellent, R. R. Street & Co., Inc.
RE-PEL, water repellent, Starr Soap & Chemical Co., Inc.
REPEL-O-MOTH TANK, mothproofing equipment, Repel-O-Products Div., North American Manufacturing Co.
REPUBLIC, controls, instruments, Republic Flow Meters Co.
RE-PURGO, powdered soap, Minnesota Chemical Co.
RESEARCH, leather belting, Graton & Knight Co.
RESEARCH, zeolite, Research Products Corp.
RESILLO, press pads, Resililo Co.
RESISTOP, water-repellent product, Caled Products Co., Inc.
RESISTO, water repellent, Resisto Laboratories
RESIZET, sizing, Takamine Laboratory, Inc.
RESTOREX, zeolite, Hungerford & Terry, Inc.
RESTORTX, liquid sizing, National Cleaners Chemical Mfg. Co.
RESYN ADHESIVES, glues, gums, sizings, starches, National Starch Products, Inc.
RETRON, flatwork ironer, American Laundry Machinery Co.
REVERE, copper and brass, Revere Copper & Brass, Inc.
REVERE SHOWMASTER, floodlights and lighting equipment, Revere Electric Mfg. Co.
RE-VI, water repellents, Davies-Young Soap Co.
REVERE, laundry roll covers, padding press covers, Revolve Div. (Atlas Powder Co.)
REX, soluble liquid drycleaning soap, Davies-Young Soap Co.
REX, sour, Kem Laboratories
REX-EX, metal hose, Flexonics Corp.
REX-TITE, heat-proof reattachable couplings, Flexonics Corp.
REX-TUBE, flexible metal hose, Flexonics Corp.
REX-WELD, metal flexible hose, tubing, Flexonics Corp.
REZEX, resins, zeolite, Elgin Softener Corp.
REZISTAL, stainless steel, Crucible Steel Co. of America
R-51, drycleaning unit, Shields Engineering & Mfg. Co.
R-51, drycleaning unit, Shields Engineering & Mfg. Co.
RHINAMEL, heavy duty enamel, Tropical Paint & Oil Co.
RIBBON DELUXE, cotton ribbon, Milwaukee Printed String Co.
RIBBON-RITE, marking machine, Textile Marking Machine Co., Inc.
RICE'S, paint products, Barreled Sunlight Paint Co.
RIDMAX, special alkali compound, Wyandotte Chemicals Corp.

RIMACO, size, stripper, wetcleaning soap, Riverside Mfg. Co.
RIMACO GENERAL FORMULA, ink and stain remover, Riverside Mfg. Co.
RINK-L-FREE, garment distributor, Time Savers, Inc.
RINTEX, soap and alkali compound, Wyandotte Chemicals Corp.
RISDON, cuff fasteners, marking flags and targets, Risdon Mfg. Co.
RISOGRAF, powdered soap, Allen B. Wrisley Co.
RIVERSIDE, wet spotter, carpet shampoo, stripper, Riverside Mfg. Co.
ROADOL, paint, oil and grease remover, Package Chemical Co., Inc.
ROADOL, wet spotter, Package Chemical Co., Inc.
ROBERTS, numbering machine, Roberts Numbering Machine Co.
ROBINETS, laundry nets, G. S. Robins & Co.
ROBINS, acetic sour, G. S. Robins & Co.
ROBOT, self-contained automatic washers, Robot Laundry Machinery Sales, Div. Wolf Co.
ROCCAL, germicide, Sterwin Chemicals, Inc.
ROCKET, laundry presses, Troy Laundry Machinery Div., American Machine & Metals, Inc.
ROCKET, synthetic solvent drycleaning unit, Vic Cleaning Machine Co.
ROCKWEAVE, laundry textiles, aprons, cover and filter cloth, double-face flannel, laundry nets, Callaway Mills, Inc.
RODALON, non-staining disinfectant, Fairfield Laboratories
RO-FLO, air compressors, vacuum pumps, Allis-Chalmers Mfg. Co.
ROK-RIB, laundry nets, Whitehouse Products, Inc.
ROLO-RUG, rug rolling and packaging machines, Lincoln Products, Inc.
ROLL-O, trouser guards, Paulin Products Co.
RONAFLEX, elastic synthetic tubing with woven metal wire cover, Ronaflex Tubing Co., Inc.
RO-NOR, stain remover, H. Kohnstamm & Co., Inc.
ROOFKOTER, roof material, Tropical Paint & Oil Co.
ROTH BAGGER, garment bagger, Huebsch Div., American Laundry Machinery Co.
ROTAIRE, conditioning tumbler, American Laundry Machinery Co.
ROTARY, condensation meters, American District Steam Co., Inc.
ROTARY, soot blower, Marion Machinery Foundry & Supply Co.
ROTEX, drycleaning extractor, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
ROTH, boiler feed units, pumps, Roy E. Roth Co.
ROTO BRUSH, electric upholstery shampoo machine, Certified Chemical & Equipment Co.
ROTOJET, self-cleaning pressure leaf filters, Hercules Filter Corp.
ROTO-KLEEN, filter, Bowers, Inc.
ROTO-MATIC, rotating laundry process units, Unipress Co.
ROUND "R", steel boiler, coal, oil, gas stoker, Kewanee Boiler Co.
ROUND THE RUTONS, shirt-ironing press pads, Resililo Co.
ROYAL, brass safety pins, Risdon Mfg. Co.
ROYAL, medium-titer, coco-tallow chip, neutral soap, Armour & Co.
ROYAL, rubber hose, rubber belting, U. S. Rubber Co.
ROYAL CALENDER, cylinder type flatwork ironer, American Laundry Machinery Co.
ROYAL OAK, leather belting, Webb Belting & Supply Co.
ROYAL PINE, soaps, Iowa Soap Co.
ROYAL WORCESTER, lace leather, Graton & Knight Co.
RF NO. 757, stain remover, H. Kohnstamm & Co., Inc.
RUBBER BASE, primer sealer, Tropical Paint & Oil Co.
RUBBER CITY, flooring materials, Rubber City Mfg. Co.
RUBBER COAT, roof system for concrete floors, Wilbur & Williams Co.
RUBEROID, built-up roofing materials, Ruberoid Co.
RUBINOFF, tags, certificates, guarantees and supplies, M. Rubinoff, Inc.
RUGGLO, rug cleaning soap, Merson Products Co.
RUG-IT, rug cleaning detergents, Certified Chemical & Equipment Co.
RUG-O, rug and carpet soap, Davies-Young Soap Co.
RUSCO, rubber belting, woven belting, press tape, Russell Mfg. Co.
RUST BAR, paint, rust preventative, Midland Paint & Varnish Co.
RUST-E-LIM, rust remover, Johnson Chemical Industries, Inc.
RUSTEX, sour, Hood Chemical Co., Inc., Crescent Div.
RUSTEX, sour, George Stearns Chemical & Mfg. Co.
RUSTEZE, rust solvent, Hood Chemical Co., Inc., Crescent Div.
RUSTGO, rust remover, A. L. Wilson Chemical Co.
RUSTICK, rust remover, National Cleaners Chemical Mfg. Co.
RUSTICON SS, rust preventative, Philadelphia Quarts Co.

RUSTIKOTE, rust preventative, Tropical Paint & Oil Co.
RUST RAIDER, boiler and heating system cleaner, Radiator Specialty Co.
RUSTYRASE, rust remover, Hachik Bleach Co.

S

S-A, anti-sulfuric-acid valves, Lunkenheimer Co.
S.E.B., wetcleaning soap, E. F. Drew & Co., Inc.
S.I.S., roofing, Barrett Div., Allied Chemical & Dye Corp.
S.M.A., high alumina firebrick, McLeod & Henry Co., Inc.

SOH, low-pressure boiler, Titusville Iron Works Co., Div. Struther Wells Corp.
SP, high-pressure boiler, Titusville Iron Works Co., Div. Struther Wells Corp.

S-R, spotter for brown and yellow stains, Caled Products Co., Inc.
SABIN, glove cleaning machines, Sabin Machine Co.

SACO, speed reducers, Stephens-Adamson Mfg. Co.

SACON, belt conveyor carriers, Stephen-Adamson Mfg. Co.

SAFE CUTTERS, cord knife, Time Savers, Inc.

SAFE-TIE ANCHORS, refractory anchors, Ramtite Co.

SAFE-T-SOL, oil, paint and grease remover, Patek & Co.

SAFE-T-THRIFT, safety solvent unit, Butler Mfg. Co.

SAFETY, dispers, Sani-Top Co.

SAFETY LINEN SOUR, sour, Diamond Alkali Co.

SAF-T-AIR, ventilator, United Electric Motor Co.

SAF-T-MARK, marking tags, Stry-Lenkov & Co.

SAGER SPREADERS, hawker spreaders, M. A. Pocock

SAIRSET, air-setting bonding mortar, A. P. Green Fire Brick Co.

SALVE-O-LEN, skin salve, Keystone Aniline & Chemical Co., Inc.

SAMOSET, soap, Lewis National Corp.

SAMSON, packing, U. S. Rubber Co.

SAMSONMITE, filter bags, leather bags, extractor covers, soap whips, starch whips, tumbler pads, Manitowoc Cotton Goods Mfg. Co.

SANA-FILTER, low-pressure, filter-type soap, Huntington Laboratories, Inc.

SANA-SIZE, sizing, Huntington Laboratories, Inc.

SANI-SOUR, antiseptic, all-purpose soap, Standard Chemical Works Co.

SANITEX, baskets, trucks, bags, C. R. Daniels, Inc.

SANITONE, drycleaning process, Emery Industries, Inc.

SANITONE MC, mothproof, Emery Industries, Inc.

SANITONE SS, silk size, Emery Industries, Inc.

SANITONE WR, water repellent, Emery Industries, Inc.

SANI TOP, diaper cans, diaper pails, deodorants, Sani-Top Co.

SANI-TYPE, heat reclaimers, Patterson-Kelley Co., Inc.

SANI-WHITE, bleach, G. S. Robins & Co.

SARPOTEX, soap compound, G. S. Robins & Co.

SAPPHIRE, stripper and stain remover, Lewis National Corp.

SARCO, steam traps, temperature regulators, Sarco Co., Inc.

SARCOCID, sour, Slater-Robbins Co., Inc.

SARCO-CONCENTRATE, paint and grease remover, Slater-Robbins Co., Inc.

SARCO-MIST, moth spray, Slater-Robbins Co., Inc.

SARCO-SOL, paint and grease remover, Slater-Robbins Co., Inc.

SARCO-TEX, wetcleaning detergent, Slater-Robbins Co., Inc.

SATINETTE, combination starch, Keefer Starch Co.

SAV-A-LOAD, extractor covers, F. H. Bonn Co.

SAVO, 92% powder soap, John T. Stanley Co., Inc.

SAVONOL, wet spotter, Patek & Co.

SAXMAYER, tying machines, National Bundle Tying Co.

SCALE-E-CATER, boiler compound, W. F. Johnson Products Engineering Co., Inc.

SCALINA, boiler compound, quick scale remover, Rathbun Co.

SCHAUB, boiler feed and condensation return systems, Fred H. Schaub Engineering Co., Inc.

SCHRAMM, air compressors, Schramm, Inc.

SCIENTIFIC, boiler water treatment, Scientific Boiler Water Conditioning Co.

SCOTCH-MUND, boilers, Mund Boilers, Inc.

SCOTSMAN, washers, Ayr-Mor Machinery Co., Inc.

SCOTTDALE, stoking grate, Marion Machine Foundry & Supply Co.

SCOTTIE JR., high-pressure riveted boilers, Kewanee Boiler Corp.

SCOUREX, textile scouring, Essential Chemicals Co.

SCRAM BLOOD, spotting agent, Warco Laboratories

SCRUB, spot remover, Starr Soap & Chemical Co., Inc.

SEABLUE, blue, Speare Co.
SEA FOAM, soap powder, Colgate-Palmolive-Peet Co.

SEALED POWER, totally enclosed fan-cooled motors, Crocker-Wheeler Electric Mfg. Co.

SEAL MASTER, ball bearings, Stephens-Adamson Mfg. Co.

SEAL-O-SAN, enamel, Huntington Laboratories, Inc.

SEAL SILICATE, silicate adhesive, Philadelphia Quartz Co.

SEALTITE, liquid-tight electrical wiring conduit, American Brass Co., American Metal Hose Branch

SEAMLEX, seamless flexible metal hose and tubing, Seamlux Co., Inc.

S.E.S., concentrated, silk and wool soap, E. F. Drew & Co., Inc.

SEC, synthetic drycleaning unit, Sec-O-Matic Corp., Div. International Projector Corp.

SEC-CLEANIZED, drycleaning process, Sec-O-Matic Corp., Div. International Projector Corp.

SECCO, dry water repellent, Patek & Co.

SEC-O-MATIC, synthetic solvent drycleaning unit, Sec-O-Matic Corp., Div. International Projector Corp.

SEC-O-MISER, solvent recovery unit, Sec-O-Matic Corp., Div. International Projector Corp.

SECTOFOG, moth protection by fogging, Fumol Corp.

SECURITY, marking pins, Risdon Mfg. Co.

SECURITY A-1, lusterizing formula, fur glaze aerosol type, Security Fur Seal Co., Inc.

SEE-SAFE, plastic storage and blanket bags, Mehl Mfg. Co.

SELF-SEAL, adhesive shirt bands, National Paper Band Co.

SELF-STICK, shirt bands, Phoenix Products Co.

SELLERS, steam boilers, open return systems, Sellers Engineering Co.

SEMI-STOD, cleaners' light naphtha, Anderson-Pritchard Oil Corp.

SENECA, soap, Lewis National Corp.

SENIOR, lubricators, Lunkenheimer Co.

SENSIMATIC, accounting machines, Burroughs Adding Machine Co.

SENSITROL, relay, Weston Electrical Instrument Corp.

SENTINEL, oil cup, Lunkenheimer Co.

SEPTO SOL, Diamond Alkali Co.

SERVIS RECORDER, time and truck recorders, Service Recorder Co.

SEQUILATE, laundry detergent, Diamond Alkali Co.

SE-707, blue, H. Kohnstamm & Co., Inc.

SE-727, curtain and blanket wetcleaning product for wheel washing, Caled Products Co., Inc.

SHAMROCK, canvas baskets, hampers, trucks, Meese, Inc.

SHAW, collar edger, Reed Mfg. Co.

SHEIDITE, waterproof belt cement, I. B. Williams & Son

SHEEN-TEX, synthetic rug cleaning soap, Blenco Co.

SHELB, tubing, National Tube Co.

SHELL-TYPE, trucks, Market Forge Co.

SHELL, naptha, stain remover, Shell Oil Co., Inc.

SHELL-LESS, washers, U. S. Hoffman Machinery Corp.

SHELL-SOL, naphtha, petroleum solvent, Shell Oil Co., Inc.

SHELL TOX, insecticide, Shell Oil Co., Inc.

SHIELDS, drycleaning unit, Shields Engineering & Mfg. Co.

SHINE BRIGHT, liquid scrubbing soap, Hild Floor Machine Co.

SHIPSARE, bags, Lanning Bag & Specialty Co.

SHIRLAN, textile fungicides, E. I. du Pont de Nemours & Co., Inc.

SHIRTAINER, shirt packaging, Loroco Industries, Inc.

SHIRT BIN, for conveying shirts, J. W. Steele & Co.

SHIRT CHUTE, metal chute for shirt handling, Rosenthal Mfg. Co.

SHIRT PAX, combination shirt board, collar support and box, Package Masters, Inc.

SHIRT PAX, shirt bag, Time Savers, Inc.

SHIRTRANSPORT, shirt transporter, G. H. Bishop Co.

SHIRT TRUX, steel shirt bins, Time Savers, Inc.

SHONE, pneumatic sewage ejector, Yeomans Bros. Co.

SHOO, odor destroyer, Caled Products Co., Inc.

SHOWERFEED, floor, rug and carpet scrubbing machines, Hild Floor Machine Co.

SHOWER-PRUF, water repellent, Adco, Inc.

SHOW-MASTER, lighting unit to accent displays by flood or spotlight, Revere Electric Co., Inc.

SHREDDED, 88% flake soap, John T. Stanley Co., Inc.

SIBUR, mothproofing agent, Sibur Methproofing Co.

SIDE AISLE, truck bodies, Montpelier Mfg. Co.

SIEBRING, electromatic steam boiler, Siebring Mfg. Co.

SIGNAL, flameproof, insecticide, Signal Chemical Mfg. Co.

SILENT HUNTINGTON, scrubbing and polishing floor machine, Huntington Laboratories, Inc.

SILENT SERP, portable vacuum cleaner, Certified Chemical & Equipment Co.

SIL-EX, black metal washer, Gross Machinery Co., Inc.

SHACON, spun nylon press cover, Phenix Supply Co.

SILIC-O-NECTIC, time delay relays, Heinemann Electric Co.

SILKANWOOL, silk and woolen soap, North Coast Chemical & Soap Works

SILKLEEN, spotting agent, Silkleen Mfg. Co.

SILTEX FLAKES, medium-titer soap, Allen B. Wrisley Co.

SILVER-CREST, washers, U. S. Hoffman Machinery Corp.

SILVER-KOTE, lacquer, Pittsburgh Waterproof Co.

SILVER LEAF, nets, Southern Mills, Inc.

SILVERLINK, roller chains, sprockets, Link-Belt Co.

SILVERSEAL, colored specialty tapes, Gummed Tapes & Devices Co.

SILVERSTEAK, silent chain drives, Link-Belt Co.

SILVERTEE, wire hangers, Academy Hanger Co., Inc.

SILVERTINE, straight and safety pins, Vail Mfg. Co.

SILVERTOP, steam trap, V. D. Anderson Co.

SIMMONS, cuff and tag tacking machines, Simmons Machine Co.

SIMMONS ELECTRO-MEND, mending and patching machines, Simmons Machine Co.

SIMPLEX, break powder, H. Kohnstamm & Co., Inc.

SIMPLEX, laundry tumblers, extractors and washers, Harkrow Ironers, drycleaning tumblers, Ironer Div., Speed Queen Corp.

SIMPLEX, office machines, time recorders, Simplex Time Recorder Co.

SIMPLEX, oil burners, Simplex Oil Heating Corp.

SINGER, sewing machines, accessories, Singer Sewing Machine Co.

SIRCO, tropical nut shells for fur cleaning, Bernard Sirota Co.

SIRCO FUME, liquid fumigating gas, Bernard Sirota Co.

S-4, automatic synthetic drycleaning unit, Prosperity Co., Inc.

S-6-T, benzene soap, Midland Color & Chemical Co.

630, paste type drycleaning soaps for caustic or distillation clarification systems, Caled Products Co., Inc.

60 SECOND, solvent, Superior Products Co.

SIZE, water-soluble size finish, Davies-Young Soap Co.

SIZE-ALL, liquid sizing, Keystone Aniline & Chemical Co., Inc.

SIZE-ALL, permanent sizing, Benda Products, Inc.

SIZEOFF, enzymic sizing agent, Takamine Laboratory, Inc.

SIZ-IN, hat sizing, Greenville Chemical Co.

SKELLYSOLVE, petroleum solvents, Skelly Oil Co.

SKIRT KLIPS, skirt clips, West Side Corp.

SKORTEX, wetcleaning compound, Wyandotte Chemicals Corp.

SKY ROCKET, extractors, Hammond Laundry-Cleaning Machinery Co.

SKYTINT, liquid laundry blue, Kliegman Bros., Inc.

SLACKS SAKS, trouser bags, Phoenix Products Co.

SLICKER, brushes, American Pressboard Co., Inc.

SLIP EASY BRAND, motor oil, boiler and roofing materials, Riverside Chemical Co., Inc.

SLIP-IN, collar protectors, Phoenix Products Co.

SLIP-KNOT, belt dressing, Webb Belting & Supply Co.

SLIP-NOT, special tanned leather belting, Milwaukee Leather Belting Co.

SLIP-ON, hanger shields, Academy Paper Box Co.

SLIP-ON, hanger shields, Larton Products Co., Inc.

SLIP-ON, sleeve press covers, F. H. Bonn Co.

SLYDE-OUT, washer, Troy Laundry Machinery Div., American Machine & Metals, Inc.

SMASH, break powder, Minnesota Chemical Co.

SMITH-DRUM, laundry machinery, Smith-Drum Co.

SMITH'S, collar, cuff and neckband replacements, Gilman B. Smith Co., Inc.

SMOOTH-TEX, press cloth, feed ribbons, Pittsburgh Waterproof Co.

SNA-PON, trouser guards, Tillery Container Co.

SNAF-TITE, cover-cloth clamp, J. W. Steele & Co.

SNO MUD CHIEF, truck tires, Mohawk Rubber Co.

SNOWFINE CRYSTALS, alkali cleaner, Solvay Process Div., Allied Chemical & Dye Corp.

SNOWFLAKE CRYSTALS, sodium sesquicarbonate, Solvay Process Div., Allied Chemical & Dye Corp.

SOAP-O-MATIC, soap dispenser, Hopkins Equipment Co.

SOAPWATER, soap, Lewis National Corp.

SOFTEX, pressure and vacuum filters, Hammond Laundry-Cleaning Machinery Co.

SOFTEX, diapers, Sani-Top Co.

SOULSORB, rag and overall detergent, Cowles Chemical Co.

SO-KLEEN PENETRANT, drycleaning detergent, Merson Products Co.

SO KLEEN SY, synthetic drycleaning soap, Merson Products Co.

SOLAD, drycleaning soap, Murphy Sales Co.

SOLARINSE, optical whitener, Carlton Chemical Co., Inc.

- SOLARSUDS**, detergent, Carlton Chemical Co., Inc.
- SOLBLUE**, blue, Speare Co.
- SOL BREAK**, break powder, Lewis National Corp.
- SOLBUMEN**, spotting agent, Eaton Chemical & Dyestuff Co.
- SOL-CLAR**, filter powder, Murphy Sales Co.
- SOLGON**, paint remover, Lewis National Corp.
- SOLID CURB**, laundry, drycleaning extractors, American Laundry Machinery Co.
- SOLIT-AYR**, washers, tumblers, extractors, Ayr-Mor Machinery Co., Inc.
- SOLVE**, soap, Lewis National Corp.
- SOLOZONE**, sodium peroxide, E. I. du Pont de Nemours & Co., Inc.
- SOL-SIL-ATE**, alkali soap builder, Lewis National Corp.
- SOL-SIL-ATE**, special alkali compounds, Speare Co.
- SOL SOUR**, sour, Lewis National Corp.
- SOL SUDS**, soap, Lewis National Corp.
- SOLTEX**, drycleaning detergent, Riverside Mfg. Co.
- SOLUBLE PINK OIL** S-189, penetrant, Jacques Wolf & Co.
- SOLUBON**, textile dyeing assistants, American Aniline Products, Inc.
- SOL-U-LUBE**, neutral lubricant, Huntington Laboratories, Inc.
- SOL-U-NESE**, dry and wet spotter, Huntington Laboratories, Inc.
- SOL-U-SOAP**, drycleaning soap, Huntington Laboratories, Inc.
- SOLVATONE**, solvent, Carbide & Carbon Chemical Corp., Unit of Union Carbide & Carbon Corp.
- SOLVENIZED**, tire rebuilding and repair material, Mohawk Rubber Co.
- SOLVENT-STYLE**, distills synthetic solvents, Deter Corp.
- SOLVEX**, spotting agent, Spix Products Co.
- SOL-VIC**, drycleaning unit for use with petroleum solvent, Vic Steading Machine Co.
- SOLVINK**, ink, paint, rust, blood stain remover, Greenville Chemical Co.
- SOLVINOL**, spotting soap, Keystone Aniline & Chemical Co.
- SOLV-O-MARK**, indelible marking pen, Mark-O Corp.
- SOLVO-MISER**, solvent recovery unit, Hoyt Mfg. Corp.
- SOLVO-RUST**, sour, Thompson-Hayward Chemical Co.
- SOLZIME**, digestive agent, Lewis National Corp.
- SONOMOR**, safety and straight pins, wire garment hangers, William Prym, Inc.
- SOURFLO**, laundry sour, Wyandotte Chemicals Corp.
- SOURTREC**, sour, Wyandotte Chemicals Corp.
- SOUTHDOWN**, diapers, George Wood, Sons & Co.
- SOUTHEASTERN**, laundry textiles, Southeastern Textile Co.
- SOUTHERN COLONEL**, sponge press pads, Southern Mills, Inc.
- SOVASOL** S, Stoddard petroleum solvent, Socony-Vacuum Oil Co., Inc.
- SOVASOL 140**, petroleum safety solvent, Socony-Vacuum Oil Co., Inc.
- SOYDOL**, soap concentrate, A. F. Wolke Co.
- SPACEMASTER**, stacker, Lewis-Sechard Products, Inc.
- SPAN**, emulsifier, wetting agent, Industrial Chemicals Dept. (Atlas Powder Co.).
- SPARKETTE**, detergent, Pennsylvania Salt Mfg. Co.
- SPARKLE**, drycleaning soap, Starr Soap & Chemical Co., Inc.
- SPARKLEAN**, drycleaning detergent, Cidex Corp.
- SPARKOLOR**, detergent emulsifier, Cidex Corp.
- SPARKS**, rubber pedal pad for drycleaning presses, Sparks Pad Co.
- SPARTAN**, flat and block leather V belt, leather packings, Graton & Knight Co.
- SPARTAN**, nets, Egan Cotton Mills
- SPEARE'S**, blues, Lewis National Corp.
- SPECIAL EXTRACTOR**, leather belt, Webb Belting & Supply Co.
- SPECIAL FINISH**, starch, A. E. Staley Mfg. Co.
- SPECIAL IRONER OIL**, cleans, polishes and lubricates flatwork ironers, College Chemical Co.
- SPECIAL "T"**, all purpose soap, Kem Laboratories
- SPECIALTY**, garment bagging device, Specialty Devices Co.
- SPEED**, brass fasteners, erasing shields, Speed Products Co., Inc.
- SPEED-BAGGER**, bagging device, Para-Lux Products Co.
- SPEEDBOX**, drying cabinets, Hammond Laundry-Cleaning Machinery Co.
- SPEED-DEE**, paint and grease remover, Adco, Inc.
- SPEEDDEX**, extractor, Zephyr Laundry Machinery Co.
- SPEED-FIBRE**, day tags, Market Industries Co., Inc.
- SPEEDISETS**, sales and record forms, Moore Business Forms, Inc.
- SPEED KING**, tumblers, Hammond Laundry-Cleaning Machinery Co.
- SPEEDLIFT**, trucks, Lewis-Shepard Products, Inc.
- SPEEDMASTER**, rug scrubber, Certified Chemical & Equipment Co.
- SPEEDMASTER**, stackers and portable elevators, Lewis-Shepard Products, Inc.
- SPEEDMATIC**, compression tacker, Speed Products Co., Inc.
- SPEEDPLUS**, filter powder, Dicalite Div., Great Lakes Carbon Corp.
- SPEED SET**, variable numbering machines, American Numbering Machine Co.
- SPEEDS**, T, press pads, B. G. & G. Chemical Co.
- SPEEDSTER**, extractor, washers, Prosperity Co., Inc.
- SPEEDUX DIPMASTER**, water-repellent dip tanks, Devco Co.
- SPEED-VAN**, delivery trucks, Linn Coach & Truck Div., Great American Industries, Inc.
- SPEEDWAY**, presboard covers, folders, Speed Products Co., Inc.
- SPEEDWAY**, washer, tumblers, starch cookers, truck tubs, Industrial Laundry Machinery Co., Inc.
- SPEEDY**, washers, driers, water heaters, drycleaning machines, Speedy Washer Mfg. Co., Inc.
- SPEEDY-SET**, automatic lock bottom carton, Cornell Paperboard Products Co.
- SPHERO**, iron ball valves, Fairbanks Co.
- SPHINX**, starch, Arabol Mfg. Co.
- SPIRO**, steam hot water heaters and nurseries, David Stout & Sons
- SPIX**, prespotter, drycleaning and suede soap, Spix Products Co.
- SPORTFOLIOS**, sport shirt package, Package Masters, Inc.
- SPORT FAX**, window envelope for packaging of sport shirts, Time Savers, Inc.
- SPORTRIGHT**, sport-shirt folding board, Key-Tag Checking System Co.
- SPORT SHIRT**, press unit, American Laundry
- SPORTSTER**, shirt folder, Time Savers, Inc.
- SPOTLESS**, paste drycleaning soap, National Cleaners Chemical Co.
- SPOTLESS CHLOROPORM**, substitute for chloroform, Slater-Robbins Co., Inc.
- SPOTLESS SIZE**, synthetic sizing, Slater-Robbins Co., Inc.
- SPROUT**, spotting agent, Kennedy Products Co.
- SPROUTIGHT**, spotting agent, Allen & Vickers, Inc.
- SPRIT-X**, prespotter, Huntington Laboratories, Inc.
- SPRUE DRESS**, liquid spray finish for sueded or smooth leathers, Caled Products Co., Inc.
- SPRAY-MASTER**, spray gun, Cleaners Specialties Supplies Co.
- SPRAY MIX**, coating refractory, Mexico Refractories Co.
- SPUNYON**, nylon net, Carson Textile Co., Inc.
- SPURT**, blood remover, Patek & Co.
- SQUARE-HEAT**, steel boiler, coal, oil, gas stoker, Kewanee Boiler Corp.
- SQUAREWAY**, curtain and blanket stretchers, Hopkins Equipment Co.
- SQUARES**, reducing and regulating valves, C. E. Squires Co.
- SS COMPOUND**, washing compounds, Lewis National Corp.
- STARBLON**, textile dyeing assistants, American Aniline Products, Inc.
- STACK-EM**, hanger rack, Time Savers, Inc.
- STACKRITE**, flatwork stacker, American Laundry Machinery Co.
- STADLURE**, starch lubricant, Stadham Co., Inc.
- STAD-SFURN**, spun treated nylon cloth, Stadham Co., Inc.
- STAR-TEX**, treated nylon cloth, Stadham Co., Inc.
- STADWAX**, ironer oil, powdered wax, Stadham Co., Inc.
- STAG BRAND**, press covers, aprons, bags, feed ribbons, Pittsburgh Waterproof Co.
- STAGE**, spotting aids, G. & G. Chemical Co.
- STAIN-A-WAY**, oxidized-stain remover, Warco Laboratories
- STAINEX**, laundry sour, Standard Chemical Works Co.
- STAIZ**, collar supports, Time Savers, Inc.
- STAMPAGRAH**, indelible hot-iron transfers, Stampograph Co., Inc.
- STAMPATCH**, cloth mender, Stampatch Magic Mender
- STANCO**, blues, soaps, Standard Chemical Works Co.
- STANDARD**, extractor, Fletcher Works, Inc.
- STANDARD**, laundry, drycleaning machinery, Standard Laundry & Cleaning Machinery Co.
- STANDARD**, pin carrier, Keyes-Davis Co.
- STANDARD**, press pads, Besile Co.
- STANDARD**, record system, Standard Register Co.
- STANDARD**, shirt unit, Prosperity Co., Inc.
- STANDARD**, valves, W. M. Chase Co.
- STANDARD FLAKE SOAP**, NO. 1, soap, Standard Soap Co. of Camden
- STANDARD KING**, net pins, Keyes-Davis Co.
- STANDATROL**, air-operated relay, Bailey Meter Co.
- STANDCO**, speed indicators, tachometers, Herman H. Sticht Co., Inc.
- STAND-EZE**, floor mat, Colonial Rubber Co.
- STAND-RUST**, rust preventative, Standard Oil Co.
- STANOX**, hot-water built soap, John T. Stanley Co., Inc.
- STANSO**, cleaning chemicals, detergents, Standard Soap Co. of Camden
- STANTEX**, press and cover cloth, John T. Stanley Co., Inc.
- STAN-T**, PROCESS, fabric-renewing compound introduced through steam line, Sta-Nu Corp.
- STAPEX**, starch, A. E. Staley Mfg. Co.
- STAPL-TITE**, marking tags, Liberty Marking Tag Co., Inc.
- STA-PUT**, lubricating oils, E. F. Houghton & Co.
- STARCHEX**, starch lubricant, Lewis National Corp.
- STAR DOWN**, diapers, George Wood, Sons & Co.
- STAR-RITE**, collar supports, shoulder shields, trouser guards, tie holders, industrial aprons, Hodge, Farewell & Co.
- STARBRUTE**, wetcleaning soap, Starr Soap & Chemical Co.
- STARR-100**, drycleaning soap, Starr Soap & Chemical Co.
- STAR SERVICE**, wire hangers, Star Service Hanger Div., L. A. Young Spring & Wire Corp.
- STARTEX**, break compound, H. Kohnstamm & Co., Inc.
- STATICOIL**, drycleaning soap, R. R. Street & Co., Inc.
- STAY-PUT**, adhesive collar stays, Story Mfg. Co.
- STAZUP**, collar supports, Alfred J. Brooks
- STEAM-AIRE**, garment finishers, Pantex Mfg. Corp.
- STEAMMAIRE**, unit heater, Young Radiator Co.
- STEAMMASTER**, boilers, return systems, Steamaster Automatic Boiler Co.
- STEAM BOILER PLANT**, boilers, Eclipse Fuel Engineering Co.
- STEAM-FLEX**, press connectors, Flexonics Corp.
- STEAM FLOW**, rubber press pad, Newhouse Co.
- STEAMIN STEVE**, portable electric steam generator, Electric Steam Boiler Sales, Div. Wolf Co.
- STEAM-PAK**, packaged steam generators, York-Shipley, Inc.
- STEAMTITE**, flexible metal connector for laundry and pressing machines, American Brass Co., American Metal Hose Branch
- STEEL-BILT**, extractors, washers, B & G Machinery Co., Inc.
- STEELCOTE**, paint, varnishes, waterproofing, Steelcote Corp.
- STEELIE BUN**, shirt carrier, J. W. Steele & Co.
- STEELIE GLIDER IRON**, electric iron, J. W. Steele & Co.
- STEELIELOX**, self-locking shirt band, J. W. Steele & Co.
- STEEM**, neutral lubricant for steam spotting, Caled Products Co., Inc.
- STEEM-ATIC**, vertical water tube boiler, Kisco Boiler & Engineering
- STEIGLER MARKOGRAPH**, marking machine, George Steigler Co.
- STEIN**, add-a-section fashers' tables, Lawrence M. Stein Co.
- STEIN**, cuff tucker, Stein Specialty Co.
- STEINER**, paper towels, soap dispensers, toilet soap, Steiner Sales Co.
- STELLAR**, filter, Indico, Inc.
- STEMALLOY**, patented silicon bronze alloy, Lunkenheimer Co.
- STERI-CHLOR**, deodorizer and germicide, Wyandotte Chemicals Corp.
- STERICLEAN**, moth repellent sour, Johnson Chemical Industries, Inc.
- STERILCO**, pumps, traps, controls, regulators, Sterling, Inc.
- STERLING**, corn starch, Kerver Starch Co.
- STERLING**, pump, boiler, Sterling Engineering & Mfg. Co.
- STERLING**, salt, salt tablets, dispensers, International Salt Co.
- STEVEDORE, JR.**, conveyor, Rapids-Standard Co., Inc.
- STEVENSON**, automatic counting machine, Stevenson Co.
- STEWART-WARNER**, instruments, Stewart-Warner Corp., Alemtic Corp.
- STIK-TITE**, belt cement, Milwaukee Leather Belting Co.
- STILLSON-GENUINE**, wrench, Walworth Co.
- STOD-SOL**, Stoddard solvent, Anderson-Prichard Oil Corp.
- STONEWALL**, fans, Stonewall Sales Co.
- STORAGEMASTER**, vault-conditioning equipment, Walter Haertel Co.
- STOVER**, water softeners, pressure filters, Stover Water Softener Co.
- STOWE STOKERS**, industrial stokers, Johnson & Jennings Co.
- STRATE**, special drycleaning detergent, Spix Products Co.
- STREAMLINE**, chest-type flatwork ironer, American Laundry Machinery Co.
- STREAMLINED LABELORS**, moistening machine, Better Packages, Inc.
- STREAMLINER**, continuous towel cabinet, Steiner Sales Co.
- STREPENE**, stripper, R. R. Street & Co., Inc.
- STREETEX**, drycleaning soap for chlorinated solvents, R. Street & Co., Inc.
- STRESSITE**, solid bronze machine parts, Amples Div., Chrysler Corp.
- STRETCH-ALL**, garment stretchers, tie forms, sleeve finishing boards, sleeve forms, Jack Hedges Specialty Co.
- STRIKE'S**, hydraulic extractor, Strike's Laundry Machinery, Inc.
- STRIPALENE-O**, stripper, Keystone Aniline & Chemical Co., Inc.
- STRIPEX**, strippers, Package Chemical Co., Inc.
- STRIP INK**, ink remover, Slater-Robbins Co., Inc.
- STRIP-KLEEN**, liquid stripper, Kem Laboratories
- STRIPMASTER**, wire strippers, Ideal Industries, Inc.
- STRIPP**, powdered stripper and bleach, G & G Chemical Co.
- STRIPPET**, strippers, Package Chemical Co., Inc.

- STRIPPIT**, stain remover, stripper, Kliegman Bros., Inc.
- STRIPPOLYTE**, dye remover, Slater-Robbins Co., Inc.
- STRIP-STICK**, stripper, National Cleaners Chemical Mfg. Co.
- STRIPTEX**, powdered stripper, Hood Chemical Co., Inc., Crescent Div.
- STROMBERG**, time clocks, Stromberg Time Corp.
- STRONG**, steam specialties, Strong, Carlisle & Hammond Co.
- STURDI-BILT**, metal laundry washer, Jensen Mfg. Co.
- STYLOGRAMS**, simulated paper handkerchief printed with sales message, Nashua Gummed & Coated Paper Co.
- SUBALOX**, lead and aluminum glimmer paint, Subox, Inc.
- SUBMERSION**, gas/oil boilers, gas/oil burners, gas/oil water heaters, David Stout & Sons
- SUBOX**, anti-corrosive paint, Subox, Inc.
- SUDS**, paste dyeing/soap, Adco, Inc.
- SUDSO**, soap builder, Washine National Sands, Inc.
- SUDSIN**, sudsy synthetic solvent, E. F. Drew & Co., Inc.
- SUEDECARE**, leather cleaning process, Suedecare, Inc.
- SUITADDRESS**, hangers, Cleaners Hanger Co.
- SULFACO**, wetcleaner, B. R. Street & Co., Inc.
- SULFOSUDS**, soapless soap, Merson Products Co.
- SULFSTAD**, soap, Stadham Co., Inc.
- SULPHOGEN**, spotting compound, Riverside Mfg. Co.
- SULPHOTEX**, detergent, soups, Keystone Aniline & Chemical Co., Inc.
- SULVA**, soapless wet cleaner, G & G Chemical Co.
- SUN**, paste filter soap, Adco, Inc.
- SUNBEAM**, automatic clothes-lifting basket liner, Cleaners Specialties Supplies Co.
- SUNBEAM**, filter, Spate Co.
- SUN FLUORESCENT**, lighting fixtures, Sun Fluorescent Electric Co.
- SUN-PROOF**, paint, Pittsburgh Plate Glass Co., Paint Div.
- SUNSHINE**, tie-forms, Sunshine Necktie Forms
- SUNSHINE**, laundry machinery, Super Laundry Machinery Co., Div. of St. Joe Machines, Inc.
- SUN-ALLER**, alkali compound, Solvay Process Div., Allied Chemical & Dye Corp.
- SUPERBELT**, leather belting, Philadelphia Belting Co.
- SUPERBILT**, soap builder, Solvay Process Div., Allied Chemical & Dye Corp.
- SUPER CHIEF**, truck tires, tire repair material, Mohawk Rubber Co.
- SUPERCHLOR**, bleach, Patterson Laboratories, Inc.
- SUPER-CLEAR**, rust-removing sour, Johnson Chemical Industries, Inc.
- SUPER DETERGENT**, detergent-type dyeing/soap, National Cleaners Chemical Mfg. Co.
- SUPER DRY-O-MATIC**, signal and alarm control for tumblers, Rosenthal Mfg. Co.
- SUPER-ELCONITE**, high-capacity greenand zeolite, Elgin Soften Corp.
- SUPEREX**, sheet block and pipe insulations, Johns-Manville
- SUPERFINE**, laundry starch, Washine National Sands, Inc.
- SUPER FURNAS-CRETE**, castable refractory, Mexico Refractories Co.
- SUPERGAUGE**, gauges, U. S. Gauge Div., American Machine & Metals, Inc.
- SUPER HIDING**, interior white, U. S. Gutta Percha Paint Co.
- SUPER HILOSET**, temperature bonding mortar, Mexico Refractories Co.
- SUPER ILLUMINATORS**, incandescent lighting equipment, Edwin F. Guth Co.
- SUPERIOR**, blues, soups, Superior Products Co.
- SUPERIOR**, crush-proof sorting hooks, lint traps, V & W Equipment Co.
- SUPERIOR**, marking machines, Textile Machinery Co., Inc.
- SUPERIOR**, rubber-tired wheels and casters, Jarvis & Jarvis, Inc.
- SUPERIOR**, rug cleaning machinery and accessories, Superior Rug Machinery Co.
- SUPERIOR**, steam generators, Superior Combustion Industries, Inc.
- SUPERKLEEN**, laundry alkali, Washine National Sands, Inc.
- SUPER-MATIC**, boilers, Eclipse Fuel Engineering Co.
- SUPER MONO-FIBRIK**, plastic firebrick, Mexico Refractories Co.
- SUPER MULTITEX**, calcium carbonate, Diamond Alkali Co.
- SUPER OILATE**, ferrous-base lubricating bearings, Amples Div., Chrysler Corp.
- SUPER ORTHO**, orthosilicate, Washine National Sands, Inc.
- SUPERPACKING**, leather packings, Philadelphia Belting Co.
- SUPER-PLASTIC**, refractory materials, A. P. Green Fire Brick Co.
- SUPER PURGO**, soap builder, Minnesota Chemical Co.
- SUPER SERVICE**, press and ironer pads and padding, Progressive Textile Mfg. Co.
- SUPER SHEEN**, alkali cleanser, Solvay Process Div., Allied Chemical & Dye Corp.
- SUPER-SULFACATE**, detergent, Diamond Alkali Co.
- SUPER SILVERTOP**, steam traps, strainers, traps, V. D. Anderson Co.
- SUPER-SOL**, v-potter, National Cleaners Chemical Mfg. Co.
- SUPER-SPEED**, drycleaning tumbler, American Laundry Machinery Co.
- SUPER STEEL**, pins, safety pins, William Prym, Inc.
- SUPER SYLON**, ironer, American Laundry Machinery Co.
- SUPER-TEX**, detergent, Nu-Pro Mfg. Co.
- SUPER-VAC**, rug cleaning suction machine, American Laundry Machinery Co.
- SUPER-WEAR**, press covers, Gustin-Kramer Co.
- SUPER X**, break powder, Spate Co.
- SUPER-ZARMO**, air-driven laundry presses, American Laundry Machinery Co.
- SUPER-ZARMOETTE**, air-driven laundry presses, American Laundry Machinery Co.
- SUPER-ZORRI**, drycleaning unit, American Laundry Machinery Co.
- SUPREME**, laundry starch, Clinton Foods Inc.
- SUPREME**, water softeners and filters, Bruner Corp.
- SURE-FLUO**, ironer was, Johnson Chemical Industries, Inc.
- SURE-GAGE**, V-groove sheaves, flat belt pulleys, rubber V-belts, T. B. Wood's Sons Co.
- SURE-HOLD**, paper specialties, wrappers, Sure-Hold Div., Nashua Gummed & Coated Paper Co.
- SURELOC**, aluminum collar and cuff fasteners, Sureloc Paper Clip Co.
- SURE-RETURN**, condensation pumps, Chicago Pump Co.
- SURE-RINSE**, rinsing aid, Johnson Chemical Industries, Inc.
- SUREADYNE**, textile leveler, Essential Chemicals Co.
- SUREALUX**, resin emulsion paint, Vita-Var Corp.
- SURFAX**, wetting agent, E. F. Houghton & Co.
- SURFEX**, calcium carbonate, Diamond Alkali Co.
- SURFEX MM**, calcium carbonate, Diamond Alkali Co.
- SUSPENSO**, calcium carbonate, Diamond Alkali Co.
- SUSSMAN**, steam iron, Automatic Steam Poducts Corp.
- SUZIE-Q**, garment finisher and fabric conditioner, Excelsior Machinery Co.
- SWAGELOK**, reducer fitting for tubing, Crawford Pipe & Fitting Co.
- SWAN**, valves, Klipfel Mfg. Co.
- SWANEE**, cover duck, Minnesota Chemical Co.
- SWANDOWN**, calcium carbonate, Diamond Alkali Co.
- SWATCH WAY**, spotting course, Delray School of Spotting Instruction
- SWIFT**, soaps, Swift's Technical Laundry Service
- SWINGLINE**, staples, staplers, Speed Products Co., Inc.
- SWIVELoader**, box or car loaders, Stephens-Adamson Mfg. Co.
- SWIV-O-HOOK**, hangers, Garment Hanger Co.
- SYLON**, chest-type flatwork ironer, American Laundry Machinery Co.
- SYLVANIA**, cellophane, Sylvania Div., American Viscose Corp.
- SYNASOL**, solvent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
- SYNTHRO-METER**, electric telemeter, Bailey Meter Co.
- SYNCHRO-VALVE**, diaphragm control valve, Bristol Co.
- SYNDEET**, insecticide, U. S. Rubber Co.
- SYNDEET**, synthetic detergent, West Side Corp.
- SYNPLEX**, outside and interior enamel, Midland Paint & Varnish Co.
- SYN-KLEEN**, synthetic detergent, G. S. Robins & Co.
- SYNOTERGE**, drycleaning soap for chlorinated solvents, Hovchem Products Co.
- SYNRENE**, O.D., concentrate for synthetic drycleaning, Wonder Wash Corp.
- SYNRENE 210**, drycleaning detergent, Wonder Wash Corp.
- SYNSO**, synthetic drycleaning soap, Nu-Pro Mfg. Co.
- SYNSODS**, soap, H. Kohnstamm & Co., Inc.
- SYN-SUDS**, synthetic detergent, G. S. Robins & Co.
- SYNSUDS**, synthetic soap powder, Trico Chemical Div., Tri-State Equipment Co.
- SYNTHEEL**, liquid filter soap, National Cleaners Chemical Mfg. Co.
- SYNTHESOL-100**, drycleaning soap for synthetic solvent, Patek & Co.
- SYNTHITE**, zeolite, Hungerford & Terry, Inc.
- SYNTHO**, soap for chlorinated solvents, National Cleaners Chemical Mfg. Co.
- SYNTHO-SAVER**, solvent recovery unit, Dretex Corp.
- SYNTHO SUDS**, synthetic soap chips, West Side Corp.
- SY PENETRANT**, drycleaning detergent, Merson Products Co.
- TAD**, insecticides, deodorants, Tad Chemical Co., Div. Acme Industrial Compounds Corp.
- TAD**, tags, Boston Clip & Tag Co.
- TAG-A-DAY**, laundry marking tags and pins, Boston Clip & Tag Co.
- TAGGER**, sewing machine for tagging, Chandler Machine Co.
- TAG-O-ELECTRIC**, makes marks and attaches tags, Textile Marking Machine Co., Inc.
- TAG-O-MATIC**, tag making and marking machine, Textile Marking Machine Co., Inc.
- TAKHOE**, laundry blue, Patek & Co.
- TAKALAB**, concentrated enzymic digestant, Takamine Laboratory, Inc.
- TAKARA-HUKS**, drycleaning specialty for cleaning drapes with hooks attached, Take-Care Mfg. & Sales Co.
- TAKIMERSE**, enzymic digestant for bath, Takamine Laboratory, Inc.
- TALASE**, desizing agent, Takamine Laboratory, Inc.
- TALLEY**, belt- and motor-driven wooden washers, Talley Laundry Machinery Co.
- TALLY**, hand counter, Denominator Co., Inc.
- TAN-AN-INK**, ink remover, Package Chemical Co., Inc.
- TANSOL**, tannin stain remover, Greenville Chemical Co.
- TAN-X**, semi-wet stain remover, National Cleaners Chemical Mfg. Co.
- TAQUET**, tachometer, Herman H. Sticht Co., Inc.
- TARBONIS**, protective skin cream, Tarbonis Co.
- TARGO**, tar remover, A. L. Wilson Chemical Co.
- TASCO**, alkali (soap builder), Lewis National Corp.
- TASCO TINT**, blue, Lewis National Corp.
- TAYLOR**, stokers, American Engineering Co.
- TECHNICLEAN**, drycleaning soap, Fry Bros. Co.
- TEJAX**, valve indicator, indicating handwheels, Tejax Engineering Corp.
- TELEFLEX**, overhead rotary conveyor, Teleflex, Inc.
- TELL BOARD**, bulletin board, Mine Safety Appliances Co.
- TELLEVAL**, bin level control switches, Stephens-Adamson Mfg. Co.
- TEL-U-VISION**, transparent garment bags, Mehl Mfg. Co.
- TEMPLETON**, steam traps, Sterling Engineering Mfg. Corp., Templeton Mfg. Co.
- TEN-MINIT**, bleach, Warco Laboratories
- 10 & 20**, shirt bins, Time Savers, Inc.
- Ten 22**, laundry and drycleaning chemicals and detergent, Roberts-Mohabir Co.
- TERGESOL**, paint and grease remover, Slater-Robbins Co., Inc.
- TERGIT**, spotting compound, Riverside Mfg. Co.
- TERGITOL**, wetting agent, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
- TER-TEX**, drycleaning concentrate, Spix Products Co.
- TETRACLEAN**, synthetic drycleaning unit, Ayr-Mor Machinery Co., Inc.
- TETRA-NOVAL**, wetcleaning soap, Keystone Aniline & Chemical Co., Inc.
- TETRAPOL**, spot washing, tar removal, General Dyestuff Corp.
- TETRA-SAN**, liquid detergent, Huntington Laboratories, Inc.
- TEK-ALL**, rug cleaner, Certified Chemical & Equipment Co.
- TEXANA**, laundry soap, Texas Soap Mfg. Corp.
- TEXT-IT**, upholstery cleaner, Certified Chemical & Equipment Co.
- TEXTITE**, industrial detergent, H. Kohnstamm & Co., Inc.
- TEXIZE**, sizing preparation, Package Chemical Co., Inc.
- TEXO**, laundry soap, E. F. Drew & Co., Inc.
- TEXSCOUR**, low-titer neutral red-oil soap flakes, Armour & Co.
- TEXSOL**, drycleaning detergent, Riverside Mfg. Co.
- TEXTAG**, lot system of production control, Carman & Co., Inc.
- TEXTO**, glazed thread, Fleischer Mills, Inc.
- TEXTURE-SAN**, fabric conditioner, Huntington Laboratories, Inc.
- TEXTZYME**, protein-removing desizing agent, Fabst Sales Co.
- THERMALITE**, 1000° F.F. high heat aluminum paint, Tropical Paint & Oil Co.
- THERMOCON**, solvent temperature control, Mar-Mak Machinery Mfg. Co.
- THERMO-HUMIDICRAPI**, combination temperature and humidity recorder, Bristol Co.
- THERMOTEX**, cover cloth, H. Kohnstamm & Co., Inc.
- THERMOTEX "S"**, heat-resistant cover cloth, H. Kohnstamm & Co., Inc.
- THERMOTROL**, radiator control, Sterling, Inc.
- THERMO-VENTO**, drying tumbler, American Laundry Machinery Co.
- THREAD-TITE**, anti-seize compound (stick form) pipe thread lubricant, Armite Laboratories
- T-38**, gunsticker, Arrow Fastener Co.
- THOR**, intermediate quality, stiff mud firebrick, Mexico Refractories Co.
- THORAL**, rug shampoo, Turoc Products, Inc.
- THO-RO**, pearl buttons, Tho-Ro Products, Inc.
- THORO**, spot and stain removers, ammonia, fur cleaner, fire extinguishers, Thoro Products Co.
- 38**, automatic synthetic drycleaning unit, Prosperity Co., Inc.
- 3-D**, DYNAMITE, soap, Rome Soap Mfg. Co.
- 3-DIMENSIONAL**, press covers, F. H. Bonn Co.

302 SC, cover cloths, Whitehouse Nylon Products
 3-STAR, leather and waterproof leather belting, Charlotte Leather Belting Co.
 328, iron oil, John F. Lynch Co.
 THIRIFLEX, drycleaning soap, detergent and emulsifier, Pennsylvania Salt Mfg. Co.
 THIRIFTIES, collar supports, M. H. Gronauer Co.
 THY-MO-TROL, electronic motor control, General Electric Co.
 TI-BAG, cover for Ti-Rak, Para-Lux Products Co.
 TIBRODE, cotton flannel padding and nets, Tingle, Brown & Co.
 TICKETAG, drycleaning identification system, "T" Tick-Tag Corp.
 TICOSTEAM, packaged steam generator, Titusville Iron Works Co., Div. Struther Wells Corp.
 TICOTERM, high-pressure boiler, Titusville Iron Works Co., Div. Struther Wells Corp.
 TIE-PAK, tie racks and bags, Phoenix Products Co.
 TIGER, grease cups, Lunkenheimer Co.
 TIGER, paste-type detergent, Adco, Inc.
 TILTOR, shirt unit and shirt presses, American Laundry Machinery Co.
 TIME-O-MATIC, timers for extractors, Rosenthal Mfg. Co.
 TIME SAVERS, garment racks, trouser guards, shirt envelopes, Time Savers, Inc.
 TIME-TEK, laundry equipment timer, Bidwell Mfg.
 TIMKEN, roller bearing, tubings, Timken Roller Bearing Co.
 TINDECK, double-face padding, Tingle, Brown & Co.
 TI-PAKS, paper twine for identification and marking purposes, A. Kimball Co.
 TI-RAK, necktie hanger, Para-Lux Products Co.
 TITANIC, stripper, Spix Products Co.
 TITE-FLEX, flexible metallic tubing, industrial and finishing filters, Titeflex, Inc.
 TITSEAL, gasket and joint sealing compound, Radiator Specialty Co.
 TOKEN-TAGS, marking tags, Pre-Marked Strip Tag Co.
 TOLEDO, scales, Toledo Scale Co.
 TOFAP, high-temperature soap chips, Armour & Co.
 TOPS, drycleaning detergent, Nu-Pro Mfg. Co.
 TORK, time switches, Tork Clock Co., Inc.
 TORNADO, blowers, industrial vacuum cleaners, floor machines, Breuer Electric Mfg. Co.
 TORBUDOR, blower unit heater, Trane Co.
 TOTRUST, rust preventative, Wilbur & Williams Co.
 TOUCH, volatile dry spotter, G & G Chemical Co.
 TRAN-CEL-SEAL, cellulose tape, Gummed Tape & Devices Co.
 TRANSITE, asbestos-cement pipe, Johns-Manville
 TRETT-O-UNIT, constant rate proportioning pump, Proportioners, Inc.
 TRI, fur cleaning fluid, Walter Haertel Co.
 TRIAD, alkali and emulsion cleaning compounds, Dettex Corp.
 TRIAD-E, trichlorethylene solvent, Dettex Corp.
 TRI-CLAD, motors, General Electric Co.
 TRICLENE, drycleaning solvent, E. I. du Pont de Nemours & Co., Inc.
 TRICO, electrical and lubricating devices, Trico Fuse Mfg. Co.
 TRICO, wetcleaning sour, Trico Chemical Div., Tri-State Equipment Co.
 TRIMESE, enzyme digester, Trico Chemical Div., Tri-State Equipment Co.
 TRIO, alkali compounds, bleach, boiler compound, Trico Chemical Works, Inc.
 TRIPLE-A, paint, Dettex Corp.
 TRIPLE "M", marking and tagging machines, Triple "M" Inc.
 TRIPLE-X, 140° F drycleaning units, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
 TRISOL, stain remover, Eaton Chemical & Dye-stuff Co.
 TRIUMPH, built non-ionic synthetic detergent, Armour & Co.
 TRIWAY, fur finishing machine, Walter Haertel Co.
 TRI X, fumigant, Walter Haertel Co.
 TROPELITE, flexible protective coating, Tropical Paint & Oil Co.
 TROPICAL, cleaner for walls, floors, windows, Tropical Paint & Oil Co.
 TROPICAL, nest shells for fur cleaning, Bernard Sirotta Co.
 TROUSER-FORM, pants shaper, Bill Glover, Inc.
 TROUS-GARD, trouser guard, Para-Lux Products Co.
 TROY, laundry machinery, Troy Laundry Machinery Div., American Machine & Metals, Inc.
 TROY-ENBERG, steam engines, generators, Troy Engine & Machine Co.
 TROY-MERCURY, drycleaning unit, Troy Laundry Machinery Div., American Machine & Metals, Inc.
 TROCLENE, petroleum solvent for drycleaning, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
 TRU COLOR, dyeing, Tru Color Dye Works
 TRUFLEX, light duty V-belts, Gates Rubber Co.
 TRUFOLD, shirt folding machine, J. W. Steele & Co.
 TRUFORM, steam-air garment finisher, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
 TRUMATIC, slatwork folder, American Laundry Machinery Co.
 TRUMP, spot remover, Spix Products Co.

TRU-SHEEN, CONCENTRATE, drycleaning soap, Tru-Sheen Corp.
 TRUSTY, gasoline strainers, Lunkenheimer Co.
 TT TICKET TAG, identification systems, "T" Tick-Tag Corp.
 TUBE-O, trouser guard, Garment Hanger Co.
 TUB-TYPE, trucks, Market Forge Co.
 TUFF HIDE, padding, Pittsburgh Waterproof Co.
 TUFFLEX, padding, Wood Conservation Co.
 TUFF-TEX, metal press pads, X. S. Smith, Inc.
 TUFFLY, heavy duty synthetic detergent, Thomson Chemical Co.
 TUMBOLITE, lighting fixture for open-end tumblers, Donnell Co.
 TURBO ACTION, washers, Zephyr Laundry Machinery Co.
 TURBO GUN, spotting gun, Elliot Rabe Mfg. Co.
 TURBO-JET, steam canopy, Hopkins Equipment Co.
 TURBO-VAC, single press vacuum system, Fanter Mfg. Co.
 TURCO, insecticides, germicides, Turco Products, Inc.
 TUSWAY, strainers, Wright-Austin Co.
 TWEEN, emulsifier, wetting agent, Industrial Chemicals Dept. (Atlas Powder Co.)
 20th CENTURY, needle bearing, Roller Bearing Co. of America
 20-L, laundry starch, Clinton Foods Inc.
 TWENTY-TWENTY, front-loading washer, American Laundry Machinery Co.
 TWIN CONTACT CONTROLS, controls, regulators, gauges, Perflex Corp.
 TWINMATIC, washer and extractor, Imperial Laundry Machinery Co.
 TWINDPLEX, fur cleaning drum and cage, Walter Haertel Co.
 TWIN-PRESS, drycleaning press, Reliable Steam Pressing Machine Service, Inc.
 TWIN RAPID, automatic shirt press, general purpose press, Reliable Steam Pressing Machine Service, Inc.
 TWINTAINER, extractor, Fletcher Works, Inc.
 TWIST-EM, metal press pads, X. S. Smith, Inc.
 TWIST-EMS, hanger combiners, Germain's Inc., Twist-Ems Div.
 TWISTEMS, hanger combiners, H. F. Hanscom
 TWITCHELL, emulsifying bases, Emery Industries, Inc.
 249, stripper, Patek & Co.
 2GAV, compressor plant, Westinghouse Air Brake Co.
 2G, industrial Products Div.
 29, general formula, R. B. Street, & Co., Inc.
 TY-BORDS, forms for pressing neckties, Joe L. Winner
 TY-O, stick machine cleaner for hot irons, presses, Tyson Sales Co., Inc.
 TYGON, plastics, U. S. Stoneware Co.
 TYMIT, timers, Tork Clock Co., Inc.
 TY-ON, nylon press covers, F. H. Bonn Co.
 TYE 16, 18, 20, 22, 180, soap builders, Turco Products, Inc.

U

U.S., stoneware, U. S. Stoneware Co.
 UCON, lubricants (synthetic oil and grease), Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
 UCON, tumblers, drycleaning units, U. S. Hoffman Machinery Corp.
 U-DOR-A, spot remover, Nu-Pro Mfg. Co.
 ULTRA-LITE, sour, Standard Chemical Works Co.
 ULTRAL-SOL, soap builder, Thompson-Hayward Chemical Co.
 ULTRA-SPEED, drying tumbler, American Laundry Machinery Co.
 ULTRAS-100, fluorescent compound, whiteners, H. Kohnstamm & Co., Inc.
 UNAFLOW, steam engines, Ames Iron Works
 UNA RETURN, ironer, Zephyr Laundry Machinery Co.
 UNIFLO, drycleaning washer, Western Laundry Machinery Co.
 UNIFORMA C, rug and upholstery cleaning detergent, Tunnel Corp.
 UNINLEVER, cylinders, Zephyr Laundry Machinery Co.
 UNIPRESS, air-driven laundry presses, Unipress Co.
 UNITED, laundry cart, U. S. Steel & Wire Co.
 UNITED, washable uniforms, United Cotton Goods Co., Inc.
 UNITHERM, unit heaters, Clarage Fan Co.
 UNITY-ALLEN, drycleaning washer-extractor, Unit Wash Co.
 UNIT WASH, laundry washer-extractor, Unit Wash Co.
 UNIVALV, valves, Edward Valves, Inc., Subsidiary Rockwell Mfg. Co.
 UNIVERSAL SPEED-FEED, sales control system, Egry Register Co.
 UNIVERSAL STRIPPER, stain remover and stripper, H. Kohnstamm & Co., Inc.
 UNLOADING CASCADE, laundry washer, American Laundry Machinery Co.

UNOX, penetrant for fire-fighting, Carbide & Carbon Chemicals Corp., Unit of Union Carbide & Carbon Corp.
 URBAN, truck bodies, Montpelier Mfg. Co.
 U-SAN-O, mothproofing, American Mothproofing Co.
 U. S. KOGLON, press pads, sponge, Newhouse Co.
 U. S. MODEL 518-1, U. S. Blind Stitch Machine Corp.
 USS STAINLESS, stainless steel, U. S. Steel Co.
 USTEX, wire and cable, U. S. Rubber Co.
 UTILITY, specially built truck bodies, Utility Truck Corp.

V

V-C, feed ribbons, textiles, Virginia-Carolina Laundry Supply Co.
 V.D., spotter, Adco, Inc.
 V & W, assorting reels, V & W Equipment Co.
 VALETERIA, drycleaning and laundry vendor, U. S. Hoffman Machinery Corp.
 VALETOR, drycleaning equipment, U. S. Hoffman Machinery Corp.
 VAN DYKE SILICA, silica brick, Mexico Refractories Co.
 VANETTE, truck bodies, Carovan Div., Universal Sales, Inc.
 VANITE, liquid detergent, Adco, Inc.
 VAPOR-CLARKSON, steam generating unit, Steam Engineering & Sales Co.
 VAPOSAVER, combination tumbler, reclamer, U. S. Hoffman Machinery Corp.
 VARIATOR, steam traps, American District Steam Co., Inc.
 VAULTMASTER, fur cleaning and storage equipment, Buehler Div., American Laundry Machinery Co.
 VEEDER-ROOT, computing and counting devices, Veeder-Root, Inc.
 VEE-LOK, clutch facings, Raybestos-Machettan, Inc.
 VEE-THREE, paste drycleaning soap, Riverside Mfg. Co.
 VEELEANT IVORY, buttons, Eureka Button Co.
 VELBAN UNIVERSAL, steam trap, Velan Engineering Co.
 VELCO, marking ink and sets, Ink-O Products Co.
 VELOCITY DRAINER, steam trap (Roat), W. M. Achmer Organization, Inc.
 VELOCITY STEAM, steam system, Velocity Steam Production Engineering Co.
 VEL-OMER, concentrated liquid odor neutralizer, Saled Products Co., Inc.
 VELVET RAINBOW, combination starch, Huron Milling Co.
 VELVET SHEEN, rubber base wall paint, Tropical Paint & Oil Co.
 VELVET WHEAT, wheat starch, Huron Milling Co.
 VELVO, wetcleaning soap, Davies-Young Soap Co.
 VERSI, laundry and wetcleaning textile finishing compound, John T. Stanley Co., Inc.
 VERTEX, low-deter soap flakes, Swift & Co.
 VIBRAMOVER, fur cleaning table, Walter Haertel Co.
 VIBRA-SORBER, pipeline vibration absorber, Flexonics Corp.
 VIC, drycleaning machinery, Vic Cleaning Machine Co.
 VIC SOL, petroleum solvent, drycleaning unit, Vic Cleaning Machine Co.
 VICTOR, straight pins, Rison Mfg. Co.
 VICTOR, wheat starch, Keefer Starch Co.
 VICTORY, blue, Minnesota Chemical Co.
 VICTORY, drycleaning soap, Patek & Co.
 VICTORY, fur cleaning fluid, Bernard Sirotta Co.
 VICTORY, laundry marking tags, Tagit Co.
 VIGIL, diaper antiseptic and deodorant, Patek & Co.
 VIKI, pipe joint compound, Keystone Lubricating Co.
 VIKING, intermediate quality, dry press firebrick, Mexico Refractories Co.
 VIKING, pumps, Viking Pump Co.
 VIM, steam engines, Ames Iron Works
 VIRGINIA GREENSTONE, non-skid floor surfacing material, soaking and rinsing tubs, wetcleaning tables, Virginia Greenstone Co., Inc.
 VISCOR, filter, Weston Electrical Instrument Corp.
 VITA-CAL, self-sealing flat wall finish in semi-paste form, Vita-Var Corp.
 VITA-CLOTH, mildewproofing, weatherproofing finishes, Vita-Var Corp.
 VITA-LUX, synthetic white enamel spar varnish, Vita-Var Corp.
 VITA-VAR, paints, enamels, varnishes, Vita-Var Corp.
 VITEX, drycleaning soaps, Patek & Co.
 VIVIDOL CL, synthetic drycleaning detergent, Stamford Chemical Co.
 VIVIDOL II, petroleum drycleaning detergent, Stamford Chemical Co.
 VIVIPRESS, finishing compound, steam treating equipment, Stamford Chemical Co.
 VOKES, air cleaners, filters, separators, strainers, Drico Industrial Corp.
 VOLTEX, spotting agent, Spix Products Co.

VOL-U-METER, flow-responsive proportioning pump, Proportioners, Inc.
VORCLAY, bentonite clay, American Colloid Co.
VORCLONE, extractors, tumbler, U. S. Hoffman Machinery Corp.
VORSEC, extractors, drycleaning units, U. S. Hoffman Machinery Corp.
V-S DRIVE, all-electric adjustable speed drive for a.c. circuits, Bellanca Electric & Engineering Co.
VULCAN, cover cloth, Pittsburgh Waterproof Co.
VULCAN, stokers, Canton Stoker Corp.
VULCO, V-pulleys, Gates Rubber Co.
VULCOMOUNT, sheaves, Gates Rubber Co.

W

W.D.P., wet or dry prespotter, Warco Laboratories
W.L., drycleaning detergents, Caled Products Co.
W. F. R., wet or dry paint remover, National Cleaners Chemical Mfg. Co.
WALCO, pipe wrench, Walworth Co.
WALDORF, paper hangers, Waldorf Co.
WALLHIDE, paint, Pittsburgh Plate Glass Co., Paint Div.
WALSEAL, threadless bronze fitting, Walworth Co.
WALSH, diaphragms, gaskets, packings, pump valves, Walsh Packing Co.
WALWORTH, valves and pipe fittings, Walworth Co.
WARING, electric steam iron, Waring Products Corp.
WARREN, leather belting, cement, dressing, Warren Belting Co., Inc.
WARRIOR, tire rebuilding and repair material, Mohawk Rubber Co.
WASH-A-WAY, washer, Cook Machinery Sales Co.
WASHEX, combination washer-extractor, Fabric Laundry & Dry Cleaning Machinery Corp.
WASHINE, bleach (sodium hypochlorite), Washine National Sands, Inc.
WASHINITE, detergent, Washine National Sands, Inc.
WASHMOR, nylon laundry nets, Tingle, Brown & Co.
WASHOMETER, washing machine recorder, Huebsch Div., American Laundry Machinery Co.
WASHTEX, overall compound, Thompson-Hayward Chemical Co.
WATCH-DOG, water meters, Worthington Pump & Machinery Corp.
WATCOCELL, asbestos pipe covering, blocks, Ruberoid Co.
WATER KING, small water supply pump, Peerless Pump Div., Food Machinery & Chemical Corp.
WATERPROOFON PRK, water repellent, Apex Chemical Co., Inc.
WATERSPAR, solvicking wax, Pittsburgh Plate Glass Co., Paint Div.
WATERWAY, laundry combination washer-extractor, Pantex Mfg. Co.
WAYNE, air compressors, pneumatic and hydraulic hoists, Wayne Pump Co.
WEATHER-MAKERS, air conditioning, Carrier Corp.
WEATHER-MASTERS, air conditioning, Carrier Corp.
WEAWE-BAC, rewaving process, Weave-Bac Equipment Co.
WEDGEWAX, anti-skid floor wax, Pest Control Equipment Co.
WEB-SCOT, high-pressure boiler, Titusville Iron Works Co., Div. Struthers Wells Corp.
WEIGHT-O-GRAFF 77, automatic scale attachment for beam scales, Howe Scale Co.
WELDMASTER, platform, Lewis-Shepard Products, Inc.
WELFCO, steam valves, discs, Western Laundry Press Co.
WERKRITE, neutral tallow flakes, powder, Allen B. Wrisley Co.
WERN'S COLDWATER, built red-oil soap, Allen B. Wrisley Co.
WESCLENE, liquid break, West Side Corp.
WESCO, dry spotter, prespotter, West Side Corp.
WESCOTT, shirt packaging supplies, Wescott Products Corp.
WESOFORM, volatile dry spotter, West Side Corp.
WEST COAST, extractors, washers, curtain stretchers, West Coast Laundry Machinery Co.
WESTERN, deep well turbine pumps, deep well turbine pressure systems, Western Pump Co., Ltd.
WESTERN, laundry washers, extractors, drycleaning washer, Western Laundry Machinery Co.
WESTINGHOUSE, air compressors, Westinghouse Air Brake Co., Industrial Products Div.
WESTINGHOUSE, lamps, Westinghouse Electric Corp.
WESTINGHOUSE, laundromat, washers, Ahd, Inc.
WESTON, electrical indicating instruments, Weston Electric Instrument Corp.
WESTVACO, chlorinated solvent (synthetic), Westaco Chemical Div., Food Machinery & Chemical Corp.
WET-AGE, wet spotter, G & C Chemical Co.
WETAWAY, water repellent, Carman & Co., Inc.

WET-CLEAN-EZE, wetcleaning soap, Rayochem Products Co.
WET-O-DRY, paint remover, Merson Products
WETSIT, wetting agents, Jacques Wolf & Co.
WETSOL, wet spotter, Nu-Pro Mfg. Co.
WETSOLV, penetrant, Package Chemical Co.
WETSPOT, wet spotter, Adco, Inc.
WETSYN, synthetic detergent, E. F. Drew & Co., Inc.
WETTEX, wetcleaner, Essential Chemicals Co.
WETSPOTTER, paint, oil and grease remover, Riverside Mfg. Co.
WHALEBONE, leather and waterproof leather belting, Charlotte Leather Belting Co.
WHEATEX, combination starch, Huron Milling Co.
WHEAT-N-CORN, combination starch, Keefer Starch Co.
WHEEL, starch, A. E. Staley Mfg. Co.
WHEEL-EZE, hand truck, Rapids-Standard Co., Inc.
WHIRL-SORT, sorting reel, Franklin Mfg. Co.
WHIRLWIND, extractor, Fletcher Works, Inc.
WHITE CAP, drycleaning soap, Midland Color & Chemical Co.
WHITE CAP, laundry blue, Beach Soap Co.
WHITEHOUSE, nylon cover cloth, funnel, press covers, sewing thence, flatwork ironer cord and tape, Whitehouse Nylon Products
WHITE HOUSE, wheat starch, Huron Milling Co.
WHITEHOUSE BLUE STREAK, nylon nets, Whitehouse Nylon Products
WHITEHOUSE ROK RIB, nylon nets, Whitehouse Nylon Products
WHITENIT, fluorescent dye addition to soaps, Carleton Chemical Co., Inc.
WHITE LABEL, medium-titer neutral soap, Beach Soap Co.
WHITE RIBBON, tallow soap chips and powder, Swift & Co., Inc.
WHITE STAR, drycleaning paste soap, R. R. Street & Co., Inc.
WHITLOCK, pressers, Whitlock Mfg. Co.
WHITSON SYSTEM, boiler return systems, Healy-Ruff Co.
WICK, tapes and braids, Wick Narrow Fabric Co.
WILL-BURT, coal stokers, oil burners, gas burners, Will-Burt Co.
WILLIAMS, laundry and drycleaning machinery, Williams Laundry Machinery Co., Inc.
WILLIAMS & DAVIS, boilers, condensation return systems, boiler feed-water systems, Williams & Davis Boiler & Welding Co., Inc.
WILL-MILCO, rug beater, A. D. Miller Co.
WINDO, cedarized storage bag, Lincoln Bag Co.
WING CLAMP, collar support, Para-Lux Products Co.
WING-GARDS, hanger shields, Para-Lux Products Co.
WING-LOCK, collar support, Para-Lux Products Co.
WING-ROLL, collar support, Para-Lux Products Co.
WINKLER, stokers, U. S. Machine Corp.
WIZARD, extractors, Hammond Laundry-Cleaning Machinery Co.
WIZARD, laundry net, Southern Mills, Inc.
WOLF, electric cloth cutters, fabric drills, rag cutters, Wolf Machine Co.
WOLKIND, formal-wear rental service, Wolkind
WOLVERINE, synthetic drycleaning machine, Wolverine Sales Co.
WONDERFOLD, sport shirt protectors, Sutherland & Fayer Co.
WONDER WASH, O. D., wetcleaning detergent, Wonder Wash Corp.
WONDER WEAVERS, rewaving damaged clothing, Wonder Weavers
WONDER WORKER, sewing machine, U. S. Blind Stitch Machine Corp.
WONDRESS, flatwork ironer pads, Southern Mills, Inc.
WOOL, soap, Swift & Co.
WOOLZ, a specific woolen soap, Caled Products Co., Inc.
WORKHORSE, rug scrubber, Certified Chemical & Equipment Co.
WORK SAVERS, drycleaning truck, Time Savers, Inc.
WORTHIE, pumps, Worthington Pump & Machinery Corp.
WOVERITE, cover cloth, padding, Lewis Na-wrap-o-matic, automatic paper cutting and wrapping machine, Rosenthal Mfg. Co.
WULPRESS, wool press cloth and surface cloth, nylon and wool press and surface cloth, Arms Textile Mfg. Co.
WYANDOTTE, detergents, soaps, Wyandotte Chemicals Corp.
WYTTEN, soap builder, Turco Products, Inc.
WYTING, stripper, Kuehne Chemical Co.

X

X. L., built synthetic detergent, Armour & Co.
XANNO, indelible ink (no heat), Applegate Chemical Co.
X-PANDO, collar supports, Time Savers, Inc.

X-30, rag and overall detergent, George Stearns Chemical & Mfg. Co.
XTRA, nylon press cloth, X. S. Smith, Inc.

Y

YA-DE, mothproof, Crossland Mfg. Co., Inc.
YARMOR, pine oil, Hercules Powder Co.
YARWAY GUN PAKT, expansion joints, Yarnall-Waring Co.
YARWAY HI-LO ALARM, water columns, Yarnall-Waring Co.
YARWAY HI-LO GRAPH, liquid level recorder, Yarnall-Waring Co.
YARWAY IMPULSE, steam traps, Yarnall-Waring Co.
YARWAY INVOLUTE, spray nozzles, Yarnall-Waring Co.
YARWAY SEATLESS, blow-off valves, Yarnall-Waring Co.
YARWAY SECURE INCLINED, water gauges, Yarnall-Waring Co.
YELLOWCO, liquid dye-reducing agent, A. L. Wilson Chemical Co.
YELLOW REMOVER, dye stripper, Patek & Co.
YELLOW SPECIFIC NO. 15, liquid stripper, Carman & Co., Inc.
YELLO-LIQUID COLD STRIPPER, stain remover and stripper, H. Kohnstamm & Co., Inc.
YORK-HEAT, burners, generators, York-Shipley, Inc.

Z

Z-P, silk drycleaning soap for chlorinated solvent systems, Caled Products Co., Inc.
Z-AIR, drycleaning press, Prosperity Co., Inc.
ZANZIBAR-CARBON, blues, curtain colors, indelible ink, indelible ink eradicant and thinner, B. Heller & Co.
ZARMITE, foot-power laundry presses, American Laundry Machinery Co.
ZARMO, foot-power laundry presses, American Laundry Machinery Co.
ZARMOETTE, air-driven laundry presses, American Laundry Machinery Co.
ZELTONE, paint remover, Riverside Mfg. Co.
ZELAN, durable water repellent, E. I. du Pont de Nemours & Co., Inc.
ZELCO, press and ironer pads, padding, press covers, Nathan Zellermaier & Co.
ZELTEX, press and ironer pads, padding, press covers, Nathan Zellermaier & Co.
ZENTH, electric timers, Zenith Electric Co.
ZENTH, extractors, filters, washers, Billingsly Machinery Co.
ZEOLITE, boiler feed-water treatment, National Chemical Sales Co., Laboratory, Inc.
ZEPHYR, extractor, ironer, washer, Zephyr Laundry Machinery Co.
ZERO, combination water softener and iron removers, neutralizers, Zero Water Softener Mfg. Co.
ZEROSOFT, water softener, iron remover, filter, zeolite, Zero Water Softener Mfg. Co.
ZEST, synthetic wetcleaning soap, Adco, Inc.
ZIG-ZAG, heat exchangers and reclaimers, David Stout & Sons
ZIP, Celanese curtain finisher, Hopkins Equipment Co.
ZIP, go-back conveyor, Time Savers, Inc.
ZIPOLA, lubricant, High Chemical, Inc.
ZIPON, leather finish, Keystone Aniline & Chemical Co., Inc.
ZIPPER-EASE, stainless lubricant, A. G. S. Co.
ZIPPO, wetcleaning detergent, Benda Products, Inc.
ZIP-R-FIX, tool kit for repairing zippers, Mars Tool Co.
ZIP STIK, ink remover, Keystone Aniline & Chemical Co., Inc.
ZOL, synthetic drycleaning solvent, Stauffer Chemical Co.
ZOLVIT, paint, oil and grease remover, Riverside Mfg. Co.
ZONE-AIR, feather reconditioning unit, American Laundry Machinery Co.
ZONE-AIR, laundry or drycleaning drying tumbler, American Laundry Machinery Co.
ZONEX, chloroform substitute, Package Chemical Co., Inc.
ZORIC, garment cleaning system, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
ZUCKERBERG, replacement collars and cuffs for white shirts, Zuckerberg Co.
ZUDS, sulphated compound for wetcleaning in salt or acid solutions, Caled Products Co., Inc.
ZURON, petroleum solvent drycleaning unit, American Cleaners Equipment Co., Div. American Laundry Machinery Co.
ZYME, enzymic desizing and cleaning compound, Carman & Co., Inc.
ZYMO, rozyzmic spot remover, Keystone Aniline & Chemical Co., Inc.

Manufacturers

**equipment and supply producers
listed alphabetically
with their mailing addresses**

A

A. A. A. Weaving Service, 1182 Madison Ave., New York 28, N. Y.
A. A. Laundry Machinery Co., 1110-12 S. Kedzie Ave., Chicago 12, Ill.
A-B Novelty Corp., 519 30th St., Union City, N. J.
A. G. S. Co., Muskegon, Mich.
Academy Hanger Co., Inc., 177 E. 123rd St., New York 35, N. Y.
Academy Paper Box Co., 3604 Park Ave., New York 36, N. Y.
Ace Cabinet Corp., Belleville Ave., New Bedford, Mass.
Ace Fastener Corp., 3415 N. Ashland Ave., Chicago 13, Ill.
Ace Hose & Rubber Co., 761 W. Van Buren St., Chicago 7, Ill.
Acker, W. M., Organization, Inc., 3167 Fulton Rd., Cleveland 9, Ohio
Acme Dye House, Inc., 7806 Carnegie Ave., Cleveland 3, Ohio
Acme Hatters Supply Co., 104-106 Bleeker St., New York 12, N. Y.
Acme Industrial Compounds Corp., 625 S. Goodman, Rochester 7, N. Y.
Acme Soap Co., 231 Third St., Cambridge 42, Mass.
Adams Weaving Co., 1123 Republic Bldg., Chicago 4, Ill.
Adco, Inc., 900-928 W. Main St., Sedalia, Mo.
Addressograph-Multigraph Corp., 1200 Babbitt Rd., Cleveland 17, Ohio
Adell Chemical Co., 176 Race St., Holyoke, Mass.
Adrian Research & Chemical Co., Inc., Elm & Pennsylvania Aves., North Wales, Pa.
Advance Floor Machine Co., 2613 S.E. Fourth St., Minneapolis 14, Minn.
Aero Corp., 214 Lafayette Pl., Englewood, N. J.
Aerovent Fan Co., 700 E. Ash St., Piqua, Ohio
Ald, Inc., 3549 N. Clark St., Chicago 13, Ill.
Alomite Div., Stewart Warner Corp., 1826 Divergy Parkway, Chicago 91, Ill.
Alert Boiler & Mfg. Co., 3661 Robson St., Detroit 28, Mich.
Allcraft Mfg. Co., 27 Hayward St., Cambridge 42, Mass.
Allegheny-Ludlum Steel Corp., 2020 Oliver Bldg., Pittsburgh 22, Pa.
Allen, R. C., Business Machines, Inc., 678 Front St., N. W., Grand Rapids, Mich.
Allen & Vickers, Inc., 495 Glen Iris Dr., N. E., Atlanta 5, Ga.
Allied Equipment Co., 7671 Rogers Ave., Chicago 26, Ill.
Allied Laundry Machinery Corp., 258 Wythe Ave., Brooklyn, N. Y.
Allied Printing & Stationery Co., Inc., 270 Lafayette St., New York 12, N. Y.
All-in-One Mfg. & Supply Co., 1498 Cook St., Houston 6, Texas
Allis-Chalmers Mfg. Co., 1126 S. 70th St., Milwaukee 1, Wis.
Allis, Louis Co., 427 E. Stewart St., Milwaukee 7, Wis.
Almore Dye House, 4412-4424 Wentworth Ave., Chicago 9, Ill.
Alrosa Chemical Co., 180 Mill St., P.O. Box 1294, Providence, R. I.
Aluminum Co. of America, 640 Gulf Bldg., Pittsburgh 19, Pa.
Ambassador Cigarettes Towel Cabinet Co., 125 N. Mission Rd., Los Angeles 33, Cal.
Amber Mfg. Co., 607 S. Union Ave., Los Angeles 14, Cal.
Amber School of Weaving, 611 Main St., Buffalo 3, N. Y.
Americaine, Inc., 1316 Sherman Ave., Evanston, Ill.
American Air Compressor Corp., 48th & Dell Ave., North Bergen, N. J.
American Aniline Products, Inc., 820 S. Clinton St., Chicago 7, Ill.
American Associated Cos., Inc., 451-461 Stephens St., S. W., Atlanta, Ga.
American Brake Shoe Co., Kellogg Div., 97 Humboldt St., Rochester 9, N. Y.

American Brass Co., American Metal Hose Branch, 699 S. Main St., Waterbury 20, Conn.
American Cleaners Equipment Co., Div. American Laundry Machinery Co., Ross & Section Aves., Cincinnati 12, Ohio
American Coal Burner Co., 18 E. Erie St., Chicago 11, Ill.
American Coat Hanger Mfg. & Specialty Co., 3917-21 W. Jefferson Blvd., Los Angeles 16, Cal.
American Colloid Co., 363 W. Superior St., Chicago 10, Ill.
American Coolair Corp., Box 2300, Jacksonville 3, Fla.
American District Steam Co., 455 Bryant St., North Tonawanda, N. Y.
American Dyeing & Cleaning Co., 4110 Worth Ave., Dallas 1, Texas
American Electrical Heater Co., 6110 Cass Ave., Detroit 2, Mich.
American Engineering Co., Aramingo Ave. & Cumberland St., Philadelphia 25, Pa.
American Felt Co., Glenville, Conn.
American Hair & Felt Co., 1828 Merchandise Mart, Chicago 54, Ill.
American Hatters Supplies, Inc., 9 E. Harrison St., Chicago 5, Ill.
American Institute of Laundering, Joliet, Ill.
American-La France-Foamite Corp., 100 E. LaFrance St., Elmhurst, N. Y.
American Laundry Machinery Co., Norwood Station, Cincinnati 12, Ohio
American Mineral Spirits Co., 230 N. Michigan Ave., Chicago, Ill.
American Monorail Co., 13107 Athens Ave., Cleveland 7, Ohio
American Mothproofing Co., 711 N. Euclid Ave., St. Louis 8, Mo.
American Numbering Machine Co., Atlantic & Shepherd Aves., Brooklyn 8, N. Y.
American Pressboard Co., 110 W. 30th St., New York 1, N. Y.
American Shirt Co., 1123 Broadway, New York 10, N. Y.
American Sterilizer Co., 1230 Plum St., Erie, Pa.
American Telephone & Telegraph Co., 193 Broadway, New York 7, N. Y.
American Textile Weaving Co., 5 N. Wabash, Chicago 11, Ill.
American Water Softener Co., Fourth & Lehigh, Philadelphia 33, Pa.
American Wire Form Corp., 265 Grant Ave., Jersey City 5, N. J.
American Writing Ink Co., Inc., 15 Hathaway St., Boston 10, Mass.
Ames Iron Works, E. Second & Cayuga Sts., Owego, N. Y.
Anderson, Glenn L., 3887 Bushnell Rd., Cleveland 18, Ohio
Anderson Box & Basket Co., Inc., Henderson, Ky.
Anderson Specialty Mfg. Co., 5 Hunt Rd., W. E., Jamestown, N. Y.
Anderson, V. D., 1935 W. 96th St., Cleveland 2, Ohio
Anderson-Prichard Oil Corp., Apco Tower, Oklahoma City 2, Okla.
Andreas, M., 156 E. 88th St., New York 28, N. Y.
Andrew Paper Box & Bag Corp., 845 Gates Ave., Brooklyn 23, N. Y.
Angus Technical Service, 11 E. Delaware Pl., Chicago 11, Ill.
Angelina Uniform Co., 1419-29 Olive St., St. Louis 3, Mo.
Angus, C. H., Acme St., Falmouth, Mich.
Anshu Chemical Co., Marinette, Wis.
Anthony Co., 47-93 Fifth St., Long Island City 1, N. Y.
Apex Chemical Co., Inc., 225 W. 34th St., New York 1, N. Y.
Applegate Chemical Co., 5632 Harper Ave., Chicago 37, Ill.
Apco-See Corp., 1450 Broadway, New York 18, N. Y.
Arabol Mfg. Co., 110 E. 42nd St., New York 17, N. Y.
Armit Laboratories, 6603 Broad St., Los Angeles 1, Cal.
Armstrong & Co., Industrial Soap Div., 1355 W. 31st St., Chicago 9, Ill.

Arms Textile Mfg. Co., 51 Madison Ave., New York 10, N. Y.
Armstrong Hart Co., 381 Peachtree, N. E., Atlanta 3, Ga.
Armstrong Machine Works, 850 Maple St., Three Rivers, Mich.
Arnold-Hoffman & Co., Inc., 55 Canal St., Providence, R. I.
Aroscent, Inc., P. O. Box 269, Dobbs Ferry, N. Y.
Arrow Fastener Co., Inc., 1 Junius St., Brooklyn 12, N. Y.
Arrow Mfg. Co., Inc., 2024 Terrace St., Kansas City 8, Mo.
Arrow Tank Co., Inc., 16 Barnett St., Buffalo 15, N. Y.
Ashton Valve Co., 161 First St., Cambridge 39, Mass.
Asnell, Victor, Fur Co., 412 Eighth Ave., New York 1, N. Y.
Associated Crib Diapers Cos., 4747 N. Damen Ave., Chicago 25, Ill.
Atlanta Brush Co., Box 1958, Atlanta 1, Ga.
Atlanta Paper Co., Marietta Ave., Atlanta, Ga.
Atlas Body Co., 4130 E. Thompson St., Philadelphia 37, Pa.
Atlas Powder Co., Industrial Chemicals Dept., Wilmington 99, Del.
Atlas Steel Products, Inc., 1180 Chico Ave., El Monte, Cal.
Attagulug Clay Co., 210 W. Washington Sq., Philadelphia 5, Pa.
Autographic Register Co., Seventh & Park, Hoboken, N. J.
Automatic Paper Box Corp., 1011-25 S. California Ave., Chicago 11, Ill.
Automatic (Sussman) Steam Products Corp., 140 W. 31st St., New York 1, N. Y.
Automatic Temperature Control Co., Inc., Philadelphia 44, Pa.
Automobile Insurance Co., 131 Farmington Ave., Hartford, Conn.
Ayr-Mor Machinery Co., Inc., 6546 N. Sheridan Rd., Chicago 28, Ill.

B

B & C Engineering Co., 2706 Chestnut St., Toledo, Ohio
B & C Machinery Co., 2432 Southeastern Ave., Indianapolis 1, Ind.
Bader, C. L., Co. Inc., 110 N. 10th St., Fort Smith, Ark.
Bahr Laundry Machine Co., 29 Calumet St., Newark 5, N. J.
Babson Co., 1001 S. Marshall St., Winston-Salem, N. C.
Bailey Meter Co., 1050 Ivanhoe Rd., Cleveland 10, Ohio
Bailey, Pheloda & Co., 326 Kalamazoo Ave., Kalamazoo 11, Mich.
Baker, J. T., Chemical Co., N. Broad St., Phillipsburg, N. J.
Baltimore Specialties Co., 419 W. Baltimore St., Baltimore 1, Md.
Band Box Corp., 2301 Chouteau Ave., St. Louis 3, Mo.
Barco Mfg. Co., 1801-15 Winnemac Ave., Chicago 40, Ill.
Barreled Sunlight Paint Co., 10 E. Dudley St., Providence 1, R. I.
Barrett Div., Allied Chemical & Dye Corp., 40 Rector St., New York 6, N. Y.
Bart, Stuart, Inc., 114 E. 32nd St., New York 10, N. Y.
Bartlett Label Co., 2135 Portage St., Kalamazoo 29F, Mich.
Basick Co., 38 Austin St., Bridgeport 2, Conn.
Bauer, Samuel, & Sons, Inc., 143 W. 29th St., New York, N. Y.
Beach Soap Co., 125 Lawrence St., Lawrence, Mass.
Beaver Pipe Tools, Inc., 310 Dana Ave., Warren, Ohio

Beckman Instruments, Inc., 820 Madison St., South Pasadena 60, Cal.
 Behrstock, L., Co., 1708 S. State St., Chicago 16, Ill.
Belec Industrial Equipment Div., Inc., 30 Iowa Ave., Paterson 3, N. J.
 Belmont Packing & Rubber Co., Inc., Butler & Sepvita Sts., Philadelphia 37, Pa.
Belsap & Thompson, Inc., 271 Madison Ave., New York N. Y.
 Benzie Bros. Bag Co., 408 Pine St., St. Louis 2, Mo.
Benda Products, Inc., 120 Potter St., Cambridge 42, Mass.
 Bendix Aviation Corp., Flexible Hose Div., U. S. Route 6, Teterboro, N. J.
Benwell Mfg. Co., Inc., 2859 Atlantic Ave., Brooklyn 7, N. Y.
 Bergen Machine Tool Co., Inc., Radne Unit Springs Div., 189 Franklin Ave., Nutley 10, N. J.
 Berger Damage Reweaving Co., 666 Madison Ave., New York 21, N. Y.
 Berger Mfg. Div., Republic Steel Corp., 1038 Belden Ave., N. E., Canton 5, Ohio
 Berliou Mfg. Co., 25 Blaine Ave., Marion, Ohio
Bersworth Chemical Co., Waverly St., Framingham, Mass.
 Bertsch & Co., Cambridge City, Ind.
 Bessler Corp., 405 So. Main St., Emperville 8, Cal.
Best Forms Co., 10 Grace St., P. O. Box 736, Wilmington, N. C.
 Bete Fog Nozzle, Inc., 85 Pierce St., Greenfield, Mass.
Better Packages, Inc., 255 Canal St., Shelton, Conn.
 Big Ben Petroleum Products Co., 624 S. Michigan Ave., Chicago 5, Ill.
Bigelow-Sanford Carpet Co., 136 Madison Ave., New York 16, N. Y.
 Billward Manufacturers, 315 E. Liberty St., Ann Arbor, Mich.
 Billingsly Machinery Co., 4316-4404 Main St., Dallas, Texas
Bimberg, Ben, & Co., Inc., 373 Broadway, New York 10, N. Y.
 Binks Mfg. Co., 3114 W. Carroll Ave., Chicago 12, Ill.
Bishop, Barry, Co., 103 E. 125th St., New York 35, N. Y.
 Bishop, G. H., Co., 618 S. Kolmar Ave., Chicago 24, Ill.
 Bixbee Research Div., of Blazemaster, Inc., 56 S. 11th St., Brooklyn 11, N. Y.
Blackner Pump Co., 1809 Century Ave., S. W., Grand Rapids 7, Mich.
 Blau, M., Mfg. Co., P. O. Box 269, Altamonte Springs, Fla.
 Blenco Co., 215 Havemeyer St., Brooklyn 11, N. Y.
 Bock Laundry Machine Co., Toledo Factories Bldg., Toledo 2, Ohio
Boler Engineering & Supply Co., 330 Fourth Ave., Phoenixville, Pa.
 Bond Foundry & Machine Co., Manheim, Pa.
Bond Street Bag & Paper Corp., 90 First St., Brooklyn 31, N. Y.
 Bonis Bros. Fur Machinery Corp., 312 Seventh Ave., New York 1, N. Y.
 Bopp, F. H., Co., 619 W. Fulton St., Chicago 6, Ill.
Bostitch, Inc., 574 Mechanic St., Westerly, R. I.
 Boston Cig. & Tag Co., 48 Grove St., Somerville, Mass.
Bostwick-Batterton Co., 315-23 N. 12th St., Philadelphia 7, Pa.
 Bostwick Laboratories, 706 Bostwick Ave., Bridgeport 5, Conn.
Bowser, Inc., 1312 E. Creighton Ave., Fort Wayne 6, Ind.
 Brabook, A. N., 424 Madison Ave., New York 17, N. Y.
 Brady Conveyors Corp., 20 W. Jackson Blvd., Chicago 4, Ill.
Braun Brush Co., 8833 78th St., Woodhaven 21, N. Y.
 Bready Engineering Corp., 3103 N. 27th St., Milwaukee 16, Wisc.
Brenew Co., Platteville, Wisc.
 Bresler Engineering Service, 509 N. Fourth Ave., P. O. Box 133, Oregon 1, Ill.
 Breuer Electric Mfg. Co., 5100 N. Ravenswood Ave., Chicago 40, Ill.
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.
 Brillo Mfg. Co., Inc., 60 John St., Brooklyn 1, N. Y.
Bristol Co., Waterbury 91, Conn.
 Brooks, Alfred J., 184 Dent St., West Roxbury, Boston, Mass.
Brownell Co., 450 N. Findlay St., Dayton 1, Ohio
 Brumber & Zinniel, 6211 N. Bay Ridge Ave., Milwaukee, Wisc.
 Bruner Corp., 2318 N. 30th St., Milwaukee 45, Wisc.
Brunner Mfg. Co., 1821 Broad St., Utica 1, N. Y.
 Brunst Mfg. Co., 64 S. Division St., Buffalo 3, N. Y.
 Bryan Steam Corp., Chili Pike, Peru, Ind.
Buffalo Meter Co., 2917 Main St., Buffalo 14, N. Y.
 Bunn, B. H., Co., 7605 Vincennes Ave., Chicago 20, Ill.
 Burcott Mills, 616 W. Fulton St., Chicago 6, Ill.
Burd Mfg. Co., 1897 Columbus Ave., Springfield 3, Mass.
 Burgess-Bertler Associates, 214 S. First St., St. Charles, Ill.

Burkstar Specialties Co., 14019 Wyoming Ave., Detroit 4, Mich.
 Burroughs Adding Machine Co., 6071 Second Ave., Detroit 32, Mich.
Bussard, R. D., & Son, 505 E. Fifth Ave., Albany, Ore.
 Butler Engineering Co., 2612 Rousseau St., New Orleans 19, La.
Butler Mfg. Co., 7400 E. 13th St., Kansas City 3E, Mo.
 C & H Electric Co., 436 W. Juneau Ave., Milwaukee 3, Wisc.
 C. O. D. Cleaning & Dyeing Co., Davenport, Iowa
Caldwell, W. E., Co., 2050 Brook St., Louisville, Ky.
 Caled Products Co., Inc., 4200 Bladensburg Blvd., Brentwood, Md.
Calgon, Inc., Hagan Bldg., Pittsburgh, Pa.
 California Laundry Equipment Co., 2221 Union St., Oakland, Cal.
 Callaway Mills, Inc., 295 Fifth Ave., New York 16, N. Y.
 Cambridge Instrument Co., Inc., 3030 Grand Central Terminal, New York, N. Y.
 Canwell View Co., Main & Sample Sts., South Bend, Ind.
Campbell, J. A., Co., 645 E. Wardlow Rd., Long Beach 7, Cal.
 Canton Stoker Corp., 1200 Andrew Pl., Canton 1, Ohio
Canvass Specialty Co., P. O. Box 937, Hartford 1, Conn.
 Capital Poster Service, Inc., 307 Canal St., New York N. Y.
Cappel, MacDonald & Co., 30 E. 60th St., New York, N. Y.
 Carbide & Carbon Chemical Corp., Unit of Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
Carey, Philip, Mfg. Co., Lockland St., Cincinnati 15, Ohio
 Carey Salt Co., Carey Bldg., Hutchinson, Kans.
Carlson Chemical Co., Inc., 33 Commerce St., New York 14, N. Y.
Carmen & Co., Inc., 70 Summit St., Brooklyn 31, N. Y.
 Carnegie-Illinois Steel Corp., Carnegie Bldg., Pittsburgh 30, Pa.
Carovan Div., Universal Sales, Inc., Delaware, Ohio
 Carrier Corp., 300 S. Geddes St., Syracuse, N. Y.
Carson Textile Co., Inc., 2401 S. Swanson St., Philadelphia, Pa.
Carter's Ink Co., 239 First St., Cambridge 42, Mass.
 Carver Pump Co., Hershey & Green Sts., Muscatine, Iowa
Cash, A. W., Co., P. O. Box 551, Decatur, Ill.
 Cash, I. & L., Inc., Chestnut St., South Norwalk, Conn.
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Century Electric Co., 1806 Pine St., St. Louis 3, Mo.
 Century Paper Products Co., 333 N. Francisco, Chicago 10, Ill.
Certified Chemical & Equipment Co., 5366 St. Clair Ave., Cleveland 3, Ohio
 Chase Valve Div., American Laundry Machinery Co., Norwood Station, Cincinnati 12, Ohio
Challenge Marking Tag Co., 3917-21 W. Jefferson Blvd., Los Angeles 16, Cal.
Chambers Extractor Co., 201 Embarcadero, San Francisco 11, Cal.
 Champion Implement Corp., 45 W. 45th St., New York 19, N. Y.
Chandler Machine Co., West St., Ayer, Mass.
Charlotte Leather Belting Co., 314-B E. Sixth St., Charlotte 1, N. C.
 Chase Brass & Copper Co., 236 Grand St., Waterbury 91, Conn.
Chastillon, John, & Sons, 89 Cliff St., New York 38, N. Y.
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Chelvin, Samuel, Co., Inc., 2721 N. Halsted St., Chicago 4, Ill.
 Chevrolet Motor Div., General Motors Corp., Detroit 2, Mich.
Chicago Automatic Stoker Co., 14 N. Clinton St., Chicago 6, Ill.
 Chicago Dryer Co., 2210 N. Pulaski Rd., Chicago 39, Ill.
Chicago Pearl Button Co., 216 W. Jackson Blvd., Chicago 6, Ill.
Chicago Pump Co., 2300 Wolfram St., Chicago 18, Ill.
 Chicago Used & New Laundry Equipment Co., 3123 W. Lake St., Chicago 12, Ill.
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Chrisman, E. L., Co., Inc., 8255 Compton Ave., Los Angeles 1, Cal.
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 Clack, Sidney A., 12-21 30th Ave., Long Island City 2, N. Y.
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Clark Mfg. Co., 1830 E. 38th St., Cleveland 14, Ohio
 Clayton Mfg. Co., 1363 N. Temple City Blvd., El Monte, Cal.
 Cleaners Hanger Co., 18140 James Couzens Highway, Detroit 35, Mich.
Cleaners Sales & Equipment Corp., 201 Washington St., New York 7, N. Y.
Cleaners Specialties Supplies Co., 6615 N. Fairfield Ave., Chicago 45, Ill.
 Clear View Packaging Co., 2636 S. Michigan Ave., Chicago 6, Ill.
Cleaver-Brooks Co., 338 E. Keefe Ave., Milwaukee 12, Wisc.
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 Clifton Products Co., Clinton 7, Mich.
Clipper Belt Lacer Co., 974 Front Ave., N.W., Grand Rapids 2, Mich.
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 Cochran Corp., 3101 N. 17th St., Philadelphia 32, Pa.
Coe Mfg. Co., Bank St., Painesville, Ohio
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 Cohen, Abe, & Son, 1721 Ft. Myer Dr., Arlington, Va.
Colgate-Palmolive-Peet Co., 105 Hudson St., Jersey City 2, N. J.
 Colledge Chemical Co., 16 Brooks Park, Medford, Mass.
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Colorado Text & Awning Co., 1642 Lawrence St., Denver 2, Colo.
 Colson Corp., N. Cedar St., Elyria, Ohio
Columbia Appliance Corp., 8-16 43rd Ave., Long Island City 1, N. Y.
 Columbia Boiler Co., Pottstown, Pa.
 Columbia Laundry Machinery Co., 1313-19 E. 15th St., Kansas City, Mo.
Columbia Needlework Supply Co., Gearhart Runner Knitter Co., 411 Sixth St., N.E., Washington 2, D. C.
Columbia Sewing Machine Corp., 129-131 W. 22nd St., New York 3, N. Y.
Columbia-Southern Chemical Corp., 632 Duquesne Way, Pittsburgh 22, Pa.
 Columbia Reweavers, 7651 N. E. Second Ave., Miami, Fla.
Combustion Control Corp., 77 Broadway, Cambridge 42, Mass.
 Combustion Engineering Div., Steel Products Engineering Co., 1205 W. Columbia St., Springfield, Ohio
Combustion Engineering Co., Inc., 200 Madison Ave., New York, N. Y.
 Comer Co., 308 Ivy St., N. E., Atlanta 1, Ga.
 Commercial Dye Works, 14 Rowell St., Roxbury 19, Mass.
Commercial Investment Trust, Inc., 1 Park Ave., New York 16, N. Y.
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 Conco Engineering Works, Div. H. D. Conkey & Co., 1900 Orange St., Mendota, Ill.
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Continental Car-Na-Var Corp., P. O. Box 344, Brazil, Ind.
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 Coolidge, John E., Co., 2508 W. Slauson Ave., Los Angeles 43, Cal.
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Cooper, T. G., & Co., Inc., Cedar & Venango Sts., Philadelphia 6, Pa.
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 C-O-Two, U. S. Highway No. 1, Newark 1, N. J.
 Covles Chemical Co., 7016 Euclid Ave., Cleveland 3, Ohio
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D

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Davis Specialties, Inc., 618 S. Kolmar Ave., Chicago 24, Ill.
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Decatur Pump Co., 2750 Nelson Pk. Rd., Decatur 70, Ill.
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Devere Co., 2000-2012 Clark St., Racine, Wis.
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Devoe & Reynolds Co., Inc., 44th St. & First Ave., New York, N. Y.
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Dixo Co., 225 River Rd., Garfield, N. J.
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Dodge Div., Chrysler Corp., 7900 Jos. Campeau Ave., Detroit, Mich.
Donnell Co., P. O. Box 84, St. Joseph, Mich.
Doran Bros., Inc., 30 Shelter Rock Rd., Danbury, Conn.
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Dubfelle Collar Co., 200 Worth St., New York 13, N. Y.
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Ebco Mfg. Co., 401 W. Town St., Columbus, Ohio
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Egry Register Co., 429 E. Monument Ave., Dayton 2, Ohio
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Electric City Dyeing Co., 509 Glenn St., Scranton, Pa.
Electric Steam Boiler Sales, Div. Wolf Co., Wolf Ave., Chambersburg, Pa.
Electric Storage Battery Co., 42 S. 15th St., Philadelphia 2, Pa.
Electro Chemical Engineering Co., Inc., P. O. Box 27, Bremen Station, St. Louis 7, Mo.
Electro Lift, Inc., 30 Church St., New York 7, N. Y.
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Elliott, Robert, Press, Inc., 345 Ludlow St., Stamford, Conn.
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Emery Industries, Inc., 6801 Mariemont Ave., Cincinnati 2, Ohio
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Empire Institute of Tailoring, 422 E. Fifth St., Haverhill, Mass.
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Everlasting Valve Co., 49 Fisk St., Jersey City 5, N. J.
Ewing, R., & Sons, Inc., P. O. Box 454, Green Island, N. Y.
Excelsior Machinery Co., 1452 Randolph St., Detroit 26, Mich.

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Fabric Laundry & Dry Cleaning Machinery Corp., 192 Banker St., Brooklyn 22, N. Y.
Fabricon Co., 8342 S. Prairie Ave., Chicago 19, Ill.
Fairair Bearing Co., Booth St., New Britain, Conn.
Fairbanks Co., 393 Lafayette St., New York 3, N. Y.
Fairbanks Morse & Co., Fairbanks Morse Bldg., 600 S. Michigan Ave., Chicago 5, Ill.
Fairfield Laboratories, Plainfield, N. J.
Fastik Co., 1106 W. Erie St., Chicago 22, Ill.
Federal Motor Truck Co., 5780 Federal Ave., Detroit, Mich.
Federal Textile Corp., East & Water Sts., New Haven, Conn.
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Fielden Instrument Corp., 2920 N. Fourth St., Philadelphia, Pa.
Filtred Corp., 727 W. Seventh St., Los Angeles 17, Cal.
Firefly Alchemical Products Co., 175 Bergen St., Newark 3, N. J.
Fletcher & Porter Co., Hathboro, Pa.
Fisher Dye Works, 1813 Emanuel St., Houston, Texas
Fisher Bros. Refining Co., Lubriplate Div., 129 Lockwood St., Newark 3, N. J.
Flash Fast Marker Co., 994 Dover Ave., Akron 20, Ohio
Fleischer Mills, Inc., 316 E. Fifth St., Cincinnati 2, Ohio
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Flexible Steel Lacing Co., 4607 Lexington St., Chicago 44, Ill.
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Flynn & Emrich Co., 301 Holliday St., Baltimore 2, Md.
Ford Div., Ford Motor Co., 3000 Schaeffer Rd., Dearborn, Mich.
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Foxboro Co., 38 Neponset Ave., Foxboro, Mass.
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Franklin Research Co., 5134 Lancaster Ave., Philadelphia 31, Pa.
Franklin Rug Machinery Co., P. O. Box 107, Franklin Pk., Ill.
Franklin Textile Mills, 120 Franklin St., Franklin Park, Mass.
Fre-Bir-Pac, Inc., 876 Van Houten Ave., Clifton, N. J.
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Freund, Freund & Co., Inc., 102 Franklin St., New York 13, N. Y.
Freyberg Bros.-Strass, Inc., 419 Fourth Ave., New York 16, N. Y.
Frigidaire Div., General Motors Corp., 300 Taylor St., Dayton 1, Ohio
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Fullo Corp., 2358 N. Seeley Ave., Chicago 47, Ill.
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Fur-Lastic, Inc., 147 W. 35th St., New York 1, N. Y.
Furter, Inc., 258 E. Third St., Mt. Vernon, N. Y.

G

G & C Chemical Co., 704 W. Broadway, Hopedale, Va.
GMC Truck & Coach Div., General Motors Corp., 660 South Blvd., E. Pontiac 11, Mich.
Gabriel Boiler & Fabrication Co., 1428 N.W. 14th Ave., Portland 9, Ore.

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Garment Finishing Equipment Corp., 18 Brattle St., Cambridge 38, Mass.
Garment Hanger Co., 2624 Geraldine St., Los Angeles 11, Cal.
Gasway Corp., 6483 N. Ravenswood Ave., Chicago 26, Ill.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Geller, L. & Son, 990 Myrtle Ave., Brooklyn 6, N. Y.
General Aniline & Film Corp., Special Products Sales Div., 444 Madison Ave., New York 22, N. Y.
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General Chemical Div., Allied Chemical & Dye Corp., 40 Rector St., New York 6, N. Y.
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General Dyeing Co., 818 Dorman St., Indianapolis 2, Ind.
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General Luminescent Corp., 732 S. Federal St., Chicago 5, Ill.
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Globe Weaving Co., 17 N. State St., Chicago, Ill.
Glover, Bill, Inc., 5204 Truman Rd., Kansas City 1, Mo.
Golden-Anderson Valve Specialty Co., 2130 Keenan Bldg., Pittsburgh 22, Pa.
Goldman Pressing Machine Corp., 400 W. Broadway, New York 12, N. Y.
Goodman, A., & Co., 6211 Cottage Grove Ave., Chicago 37, Ill.
Goodrich, R. F., Co., 500 S. Main St., Akron 18, Ohio
Goodyear Tire & Rubber Co., Akron, Ohio
Corton Heating Corp., Cranford, N. J.
Goulds Pumps, Inc., 300 Fall St., Seneca Falls, N. Y.
Grater & Knight Co., 356 Franklin St., Worcester 4, Mass.
Graver Tank & Mfg. Co., Inc., 4609 Tod Ave., East Chicago, Ind.
Graves & Marshall Co., 720 E. Monument Ave., Dayton 2, Ohio
Greaves Machine Tool Co., 2001-17 Eastern Ave., Cincinnati 2, Ohio
Green, A. F., Fire Brick Co., Mexico, Mo.
Greenville Chemical Co., W. Washington St., Greenville, S. C.
Greenwood Textile Co., 390 Fenn St., Pittsfield, Mass.
Greif Bros. Co. Paper Corp., Wire Garment Hanger Div., Pennsylvania Ave., Delaware, Ohio
Griff, Samuel, Inc., 412 Eighth Ave., New York 18, N. Y.
Grimes Co., 2900 Main St., Dallas 1, Texas
Gronauer, M. H. Co., 11 Nettleton, Memphis 2, Tenn.
Gross Machinery Co., Inc., 179-191 Halbert St., Buffalo 14, N. Y.
Gulf Oil Corp.-Gulf Refining Co., 3800 Gulf Bldg., Pittsburgh 30, Pa.
Gumwood Taper Devices Co., 1318-20 60th St., Brooklyn 19, N. Y.
Gustin-Kramer Co., 74-80 Cummings St., Boston 15, Mass.
Guth, Edwin F., Co., 2615 Washington Ave., St. Louis 3, Mo.

Hall, Amos H., & Sons, 5500 N. Water St., Philadelphia, Pa.
Hamilton Caster & Mfg. Co., 1637 Dixie Highway, Hamilton, Ohio
Hamilton Copper & Brass Works, Div. Brighton Copper Works, Inc., 820 State Ave., Cincinnati 4, Ohio
Hammel-Dahl Co., 247 Richmond St., Providence 3, R. I.
Hammond Laundry-Cleaning Machinery Co., Hammond Bldg., Waco, Texas
Handy Button Machine Co., 2255 S. Rockwell St., Chicago 8, Ill.
Handy Specialties, 9159 W. Pico Blvd., Los Angeles 35, Cal.
Hanscom, H. F., & Co., 38 Hospital St., Providence 3, R. I.
Hapman-Dutton Co., Dutton Boiler Div., 629 Gibson St., Kalamazoo 6, Mich.
Haring & Stephens Co., 635 McBride Ave., Paterson, N. J.
Harrison, Robert D., Inc., 566 E. Warren Ave., Detroit 2, Mich.
Hatters Supply House, Inc., 404 S. Wells St., Chicago 7, Ill.
Hauser-Stander Tank Co., 4838 Spring Grove Ave., Cincinnati 32, Ohio
Haynes Stellite Co., Unit of Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
Hay Corp., 742 E. Eighth St., Michigan City, Ind.
Healy-Ruff Co., 2255 University Ave., St. Paul 4, Minn.
Heinemann Electric Co., Pennsylvania Ave. & Plum St., Trenton 2, N. J.
Heller, B., & Co., 3925 Calumet Ave., Chicago 15, Ill.
Heller Laboratories, 196 Morgan St., Jersey City 2, N. J.
Hellige, Inc., 37-18 Northern Blvd., Long Island City 1, N. Y.
Heminyan & Bartlett Mfg. Co., 500 Fifth Ave., New York 35, N. Y.
Henrici Laundry Machinery Co., 11 Henrici St., Mattapan Station, Boston 26, Mass.
Henry Hanger Co. of America, 450 Seventh Ave., New York 1, N. Y.
Hercules Filter Corp., 204 21st Ave., Paterson, N. J.
Hercules Laundry Machinery Co., Inc., 132-36 W. 124th St., New York 27, N. Y.
Hercules Powder Co., 952 King St., Wilmington, Del.
Herman Body Co., 4400 Clayton Ave., St. Louis 10, Mo.
Hettrick Mfg. Co., 1401 Summit St., Toledo 12, Ohio
High Chemical Co., Chemical Specialties Div., 1760 N. Howard St., Philadelphia 22, Pa.
Hild Floor Machine Co., 740 W. Washington Blvd., Chicago 6, Ill.
Hinz Needle Co., 10018 S. Rhodes Ave., Chicago 26, Ill.
Hirsch, Leo H., & Co., 380 Second Ave., New York 18, N. Y.
Hodge, Farwell & Co., 1934 Sterling Ave., Elkhart, Ind.
Hodges, Jack, Specialty Co., 1529 Westheimer Rd., Houston 6, Texas
Hoffman, V. S., Machinery Corp., 105 Fourth Ave., New York 3, N. Y.
Hollingsworth & Vose Co., 112 Washington St., East Walpole, Mass.
Holt Mfg. Co., 651-81 20th St., Oakland 12, Cal.
Hood Chemical Co., Inc., Crescent Div., 1937 S. Broad St., Philadelphia 48, Pa.
Hoof Products Co., 8543 S. Laramie Ave., Chicago 38, Ill.
Hooker Electrochemical Co., Niagara Falls, N. Y.
Hooper, Wm. E., & Sons, Woodberry, Baltimore, Md.
Hope Webbing Co., Providence 1, R. I.
Hopkins Equipment Co., 22 Maple Ave., Hatfield, Pa.
Horn, A. C., Co., Inc., 10th St. & 44th Ave., Long Island City 1, N. Y.
Houghton, E. F., & Co., 303 W. Lehigh Ave., Philadelphia 33, Pa.
House of Plastics, Div. Neon Sign Co., Inc., N. 14th at Taylor, Herrin, Ill.
Howe Paper Corp., 670 Young St., Tonawanda, N. Y.
Howe Scale Co., Rutland, Vt.
Hoyt Mfg. Corp., 994 Jefferson St., Fall River, Mass.
Hub Printing Services, 320 N. Euclid Ave., Oak Park, Ill.
Huebner Co., 601 Main St., Keokuk, Iowa
Huebsch Div., American Laundry Machinery Co., 3775 N. Holton St., Milwaukee 1, Wis.
Hungertord & Terry, Inc., Atlantic Ave., Clayton, N. J.
Huntington Laboratories, Inc., 900-970 E. Tipton St., Huntington, Ind.
Huron Milling Co., 9 Park Pl., New York 7, N. Y.
Hygrade Button & Supply Co., 19 W. 34th St., New York 1, N. Y.

Ideal Stencil Machine Co., 102 Iowa Ave., Belleville, Ill.
Ilg Electric Ventilating Co., 2850 N. Crawford Ave., Chicago 41, Ill.
Illinois Laundry Machinery Mfg. Co., 3128 W. Lake St., Chicago 10, Ill.
Imperial Dye House, 3421 Tulane Ave., New Orleans 19, La.
Imperial Laundry Machinery Co., 245 Huron St., Brooklyn 22, N. Y.
Indiana Dye House, 122-126 State St., Hammond, Ind.
Indiana Mfg. Co., 1900 E. Main St., New Albany, Ind.
Industrial Equipment Co., 361 N. Ada St., Chicago 7, Ill.
Industrial Grain Products, Ltd., 741 Talbot St., London, Ont., Can.
Industrial Laundry Machinery Co., Inc., Morgan Ave. cor. Stage St., Brooklyn 37, N. Y.
Industrial Products Co., 2654 N. Fourth St., Philadelphia 33, Pa.
Infilco, Inc., 325 W. 25th Pl., Chicago 16, Ill.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Ink-O Products Co., 5101 Monte Vista St., Los Angeles 43, Cal.
Innis, Spiden & Co., 117 Liberty St., New York 6, N. Y.
International Boiler Works Co., 500 Birch St., East Stroudsburg, Pa.
International Engineering, Inc., 1145 Bolander Ave., Dayton 1, Ohio
International Harvester Co., 180 N. Michigan Ave., Chicago, Ill.
International Laundry Equipment Div., Kurt Urban Co., Inc., 205 E. 42nd St., New York 17, N. Y.
International Metal Polish Co., 1910 Quill St., Indianapolis 7, Ind.
International Nickel Co., Inc., 67 Wall St., New York 5, N. Y.
International Paper Co., Southern Kraft Div., 220 E. 42nd St., New York 17, N. Y.
International Salt Co., Scranton 2, Pa.
International Street Wagon Corp., 2205 Park Rd., Springfield, Ohio
International Tag & Salesbook Co., 310 N. Whipple St., Chicago 12, Ill.
International Textile Co., 50 Grafton Ave., Newark 4, N. J.
International Wire Hanger Mfg. Co., 2128 W. Lake St., Chicago 12, Ill.
Invincible Vacuum Cleaner Mfg. Co., 14th & Davis Sts., Dover, Ohio
Inweaving Co. of America, 1505 11th St., Wichita Falls, Texas
Iowa Soap Co., 816 Valley St., Burlington, Iowa
Ironer Div., Speed Queen Corp., Algonquin, Ill.
Iron Fireman Mfg. Co., 3170 W. 100th St., Cleveland 11, Ohio

J

J & L Mfg. Co., 21 Castle Ave., Bridgeport 5, Conn.
Jacobson, Lawrence, Dye Works, Inc., Oxford Ave., Summerville & Comly Sts., Philadelphia 24, Pa.
Jarvis & Jarvis, Inc., S. Main St., Palmer, Mass.
Jay-Deco, Inc., Mfg. Chemists, 946 Kenmore Blvd., Akron 14, Ohio
Jefferson Island Salt Co., Jefferson Island Bldg., 136 St. Matthews Ave., Louisville 7, Ky.
Jensen Mfg. Co., Broad St. & Hynton Rd., Palmyra, N. J.
Jerleyn, Inc., P. O. Box 759, 927 Lincoln Rd., Miami Beach 39, Fla.
Johns-Manville, 22 E. 40th St., New York 16, N. Y.
Johnson Chemical Industries, Inc., 99 Mellor Ave., Baltimore 28, Md.
Johnson Corp., 855 Wood St., Three Rivers, Mich.
Johnson Metal Hose, Inc., 10 Sperry, Waterbury 20, Conn.
Johnson, S. C., & Son, Inc., Racine, Wis.
Johnson, W. F., Products Co., 309 Joliet Ave., San Antonio 9, Texas
Johnson Bros., Inc., 100 Pine St., Ferrysburg 1, Mich.
Johnston & Jennings Co., Div. Pettibone-Mulliken Corp., 6917 Bessemer Ave., Cleveland 27, Ohio
Jones, C. Walker, Co., 6135 N. Lambert, Philadelphia 38, Pa.

K

Kamen Soap Products Co., Inc., 233 Broadway, New York 7, N. Y.
Kaplan's, David G., Drycleaner's Service (Katr Fur), 146 W. 29th St., New York 11, N. Y.
Karick Co., 2100 McLendon Ave., N. E., Atlanta, Ga.

Hachik Bleach Co., Wynnfield Ave., Philadelphia 31, Pa.
Haerfel, Walter, Co., 2840 Fourth Ave., S., Minneapolis 8, Minn.
Hagan Corp., 323 Fourth Ave., Pittsburgh 22, Pa.

Ideal Industries, Inc., Park Ave., Sycamore, Ill.
Ideal Lighting Co., 2219 63rd St., Kenosha, Wis.

Kasco Co., 27-08 18th St., Long Island City, N. Y.
Kato Engineering Co., 1415 First Ave., Mankato, Minn.
Katz Bag Co., 6243 N. Western Ave., Chicago 45, Ill.
Kays & MacDonald, Inc., 11-15 Central Ave., West Orange, N. J.
Keckley, O. C. Co., 400 W. Madison St., Chicago 6, Ill.
Keeler, E. Co., 238 West St., Williamsport 3, Pa.
Keever Starch Co., 538 E. Town St., Columbus 15, Ohio
Kelite Products, Inc., P. O. Box 2917, Terminal Annex Station, Los Angeles 54, Cal.
Kelley Iron Works, 801 W. First St., Charlotte, N. C.
Kelmaker Mfg. Co., 311 Sixth Ave., Rochelle, Ill.
Kelvinator Div., Nash-Kelvinator Corp., 14250 Plymouth Rd., Detroit, Mich.
Kem Laboratories, 101 E. 144th St., Bronx 51, N. Y.
Kendick Corp., Div. Tobin-Halpert, Inc., 254 Third St., Brooklyn 15, N. Y.
Kennedy Car Liner & Bag Co., Inc., Hodell & Prospect Sts., Shelbyville, Ind.
Kennedy Products Co., 4125 Orchard Lane, Cincinnati 36, Ohio
Kenney Softener & Filter Co., 3332-34 Montrose Ave., Chicago 45, Ill.
Kentucky Box & Truck Co., Fourth & Alvisia Sts. (P. O. Box 463), Henderson, Ky.
Kewanee Boiler Corp., Franklin St. & Q Tracks, Kewanee, Ill.
Keyes-Davis Co., 110 14th St., Battle Creek, Mich.
Keystone Aniline & Chemical Co., Inc., 321 N. Loomis St. (1400 W.), Chicago 7, Ill.
Keystone Chemical Co., 2019 Center St., N. W., Cleveland 13, Ohio
Keystone Coat & Apron Mfg. Corp. & Keystone Scent Conditioner Corp., 315 N. 12th St., Philadelphia 7, Pa.
Keystone Laundry Machinery Co., 413 N. Oswego St., Chicago 22, Ill.
Keystone Tag Co., West Chester, Pa.
Key-Tag Checking System Co., 8509 Hough Ave., Cleveland 3, Ohio
Kiddle, Walter, & Co., Inc., 675 Main St., Belleville 9, N. J.
Kimball, A. Co., 307 W. Broadway, New York 13, N. Y.
Kimford Co., 218 Lansdowne Ave., Wayne 1, Pa.
Kirk & Blum Mfg. Co., 3120 Forrer St. (Oakley), Cincinnati 9, Ohio
Kirk's Leather Cleaners, 7320 Melrose Ave., Los Angeles 46, Cal.
Kisto Boiler & Engineering Co., 2414 De Kalb St., St. Louis 4, Mo.
Kleener, Inc., 1909 50th Pl., N., Birmingham 4, Ala.
Kletnick, L. & Co., 8342 S. Prairie Ave., Chicago 19, Ill.
Kliegman Bros., Inc., 76-01 77th Ave., Glendale, Brooklyn 27, N. Y.
Klipfel Mfg. Co., 1000 Weller Ave., Hamilton, Ohio
Knight, Maurice A., Settlement, Akron 6, Ohio
Knitted Pading Co., 105 Chapman St., Canton, Mass.
Kohntamm, H. & Co., Inc., 83-93 Park Pl., New York 7, N. Y.
Kol Master Corp., P. O. Box 111, Oregon 1, Ill.
Kran-Mer Corp., 2433-35 N. Third St., Milwaukee 12, Wis.
Kresky Mfg. Co., Inc., 307 Third St., Petaluma, Cal.
Krevis, H. & Co., Inc., 11 Albert St., New Haven 11, Conn.
Kuehne Chemical Co., 878 Woodruff Lane, Elizabeth, N. J.
Kunkle Valve Co., 110 S. Clinton St., Fort Wayne 2, Ind.
Kwik Kover Sales Co., 410 N. Kedzie St., Chicago 12, Ill.

L

Laclede Stoker Co., 4438 Hunt Ave., St. Louis 10, Mo.
La France Dye House, 946 Sheby St., Youngstown 6, Ohio
Laidlaw, W. A. Wire Co., Peoria, Ill.
Lally, R. Co., 1729 Greenleaf Ave., Chicago 28, Ill.
Lamboy Label & Wrapper Co., 2129 Portage St., Kalamazoo 29F, Mich.
Lamson Corp., Blower Div., 2307 James St., Syracuse, N. Y.
Lane, W. T., & Bros., Inc., Prospect St., Poughkeepsie, N. Y.
Lanning Bag & Specialty Co., 205 Front St., Harvard, Ill.
Larick Mfg. Co., 287 Broadway, New York, N. Y.
Larton Products Co., Inc., 4234 Third Ave., New York 57, N. Y.
Latner, F. M. Mfg. Co., 1411 Ninth St., S.W., Cedar Rapids, Iowa
Laundry Chemicals Co., 4538 W. 130th St., Cleveland 11, Ohio
Laundry Machinery Div., Jefferson Wood Working Co., 14th & Hill Sts., Louisville, Ky.

Laurel Co., 129 Grand St., Garfield 2, N. J.
Lavey & Bowler, Inc., Box 6697, Hollywood Station, Memphis 8, Tenn.
Le Ann Fine Fur, 311 Collinsville Ave., East St. Louis, Ill.
Leathers, L. M., Sons, Paper Products Div., 675 Polaski St., Athens, Ga.
Leavitt Machine Co., 10 E. River St., Orange, Mass.
Leavitt Mfg. Co., 453 Taunton Ave., East Providence 14, R. I.
Leebaw Mfg. Co., 65 Wayne Ave., Youngstown 2, Ohio
Leet Bros., Inc., 205 Irving Ave., N., Minneapolis 5, Minn.
Leffel, James, & Co., 426 East St., Springfield 99, Ohio
Leonard Pressing Machine Co., 1808 English St., High Point, N. C.
Leslie Co., 297 Grant Ave., Lyndhurst, N. J.
Levy, L. & H., Inc., 31 Greene St., New York 13, N. Y.
Lewis, G. B. Co., P. O. Box 377, Watertown, Wisc.
Lewis Invisible Stitch Machine Co., 129 W. 22nd St., New York, N. Y.
Lew National Corp., 29 Sleeper St., Boston 10, Mass.
Lewis-Shepard Products, Inc., 307 Walnut St., Watertown 72, Mass.
Lieber's Sewing Tag Co., Inc., 27 Hooper St., Brooklyn 11, N. Y.
Life Products Co., 1105 N. Water St., Milwaukee 2, Wisc.
Lincoln Bag Co., Inc., 4200 W. Schubert Ave. (2700 N.), Chicago 39, Ill.
Lincoln-Hudson Rug Dyers, Inc., 900 Passaic Ave., East Newark, N. J.
Lincoln Research, Inc., 3250 Montrose St., Toledo 6, Ohio
Lincoln Rug Co., Inc., 85 Springdale Ave., Newark, N. J.
Lincoln-Schuttler Floor Machinery Co., Inc., 512 S. Peoria St., Chicago, Ill.
Link-Belt Co., 300 W. Pershing Rd., Chicago 9, Ill.
Link, Coach & Truck Div., Great American Industries, Inc., 443 Chestnut St., Oronota, N. Y.
Lion Uniform Co., 209 S. Jefferson, Dayton 2, Ohio
Liquidometer Corp., 39-21 Skillman Ave., Long Island City 1, N. Y.
Little Frenchman's Dye Works, 921 N. 25th St., Waco, Texas
Little Giant Specialties, 1547 Venice Blvd., Los Angeles 31, Cal.
Loebly Dye Works, Inc., Roanoke, Va.
Lookout Boiler & Mfg. Co., Manufacturers Rd. & Compress St., Chattanooga 1, Tenn.
Loroco Industries, Inc., 203 E. Benson St., Reading 15, Ohio
Los Angeles Soap Co., 617 E. First St., Los Angeles, Cal.
Louden Machinery Co., 1402 Broadway, Fairfield, Iowa
Loyal Textile Machinery Corp., 288 Scholes St., Brooklyn, N. Y.
Lubbock Machine Co., Inc., Box 1138, Lubbock, Texas
Lancaster, Claude E., Associates, 850 E. Colorado, Pasadena, Cal.
Lucey Boiler & Mfg. Co., Chattanooga 2, Tenn.
Lukenheimer Corp., P. O. Box 360, RH, Cincinnati 14, Ohio
Lynch, John F. Co., 1166 Howard St., San Francisco, Cal.

Mc

McBee Co., 295 Madison Ave., New York, N. Y.
McClary Associates, Inc., 612 N. Main St., Memphis, Tenn.
McDonnell & Miller, Inc., 3500 N. Spaulding Ave., Chicago 18, Ill.
McElmoy, W. J. Co., 63 Church St., Groveville, N. Y.
McGrane Bros., 44 Court St., Brooklyn 2, N. Y.
McLay, Walter J., 1105 N. Water St., Milwaukee 3, Wisc.
McLay & Henry Co., Inc., 351 First St., Troy, N. Y.

M

M. B. Mfg. Co., Inc., 1060 State St., New Haven, Conn.
M & B Metal Products Co., 4415 Morris Ave., Birmingham, Ala.
Mace, A. B. Chemical Co., Div. Victor Chemical Works, 4570 Ardine St., South Gate, Cal.
Macbeth Corp., 227 W. 17th St., New York 11, N. Y.
Mack Trucks, Inc., 350 Fifth Ave., New York 1, N. Y.

Madison Products Co., 105 16th St., Toledo 2, Ohio
Magie Re-Weaving Service, 28 W. Second St., Salt Lake City, Utah
Magie-Seal Paper Products, 883 E. Hudson, Columbus 11, Ohio
Magie Textile Weavers, 948 W. McNichols Rd., Detroit 3, Mich.
Magla Products, 310-312 Washington St., Newark 4, N. J.
Magnus Chemical Co., Inc., South Ave., Garwood, N. J.
Majestic Dye House, 3920 W. Armitage Ave., Chicago 47, Ill.
Majestic Paper & Twine Co., Inc. (Laundry & Drycleaning Supply Div.), 155 Imlay St., Brooklyn 31, N. Y.
Malleable Iron Fittings Co., Branford, Conn.
Mallinckrodt Chemical Works, Second & Mallinckrodt Sts., St. Louis 7, Mo.
Manitowoc Cotton Goods Mfg. Co., 813 S. Eighth St., Manitowoc, Wisc.
Manitowoc Engineering Corp., 512 16th St., Manitowoc, Wisc.
Manning, Maxwell & Moore, Inc., 250 E. Main St., Stratford, Conn.
Marceline Chemical Products Corp., 1181 Jefferson Ave., Buffalo 8, N. Y.
Marion Machine Foundry & Supply Corp., 90 West St., New York, N. Y.
Martins Mfg. Co., 473 Stevens, S.W., Atlanta 4, Ga.
Market Forge Co., 25 Carvey St., Everett 40, Mass.
Marshall Industries, Inc., 209 Utah St., San Francisco 1, Cal.
Mark-O Corp., 17 W. 60th St., New York 23, N. Y.
Marlex Corp., 453 W. 17th St., New York 11, N. Y.
Marlow Pumps, Greenwood Ave., Ridgewood, N. Y.
Mar-Mak Machinery Mfg. Co., 626 N. Logan Ave., Danville, Ill.
Marmont-Herrington Co., Inc., 1511 W. Washington St., Indianapolis 7, Ind.
Marsh, Jas. P. Corp., 2975 Southport Ave., Chicago 14, Ill.
Marshall Co., 4350 N. Pulaski Rd., Chicago 41, Ill.
Marshall Heater Co., 716-26 E. Monument Ave., Dayton 2, Ohio
Martin Equipment Co., Div. American Laundry Machinery Co., Ross & Section Aves., Cincinnati 13, Ohio
Martin Fan & Blower Co., 4632 W. 21st Pl., Chicago 50, Ill.
Marvella Corp., 2019 Center St., N. W., Cleveland 13, Ohio
Marvel Mfg. Co., 113 Live Oak St., San Antonio, Texas
Marvel Marking Machine Co., 1433 Blake St., Denver, Colo.
Mason-Neilan Regulator Co., 1190 Adams St., Boston 24, Mass.
Master Machinery Co., Anderson, Ind.
Master Products Co., 7000 S. Wentworth Ave., Chicago 21, Ill.
Mathieson Chemical Corp., Mathieson Bldg., Baltimore 3, Md.
Maxant Button & Supply Co., 117 S. Morgan St., Chicago 7, Ill.
Mead, George E. Co., 11240 S. Arroyo Dr., Whittier, Cal.
Mears-Kane-Oeldt, Inc., P. O. Box 223, Bridgeport, Cal.
Medallie Mfg. Co., 213 First Ave., N., Minneapolis 1, Minn.
Meese, Inc., 1948 Madison St., Madison, Ind.
Mehl Mfg. Co., 2057 Reading Rd., Cincinnati 2, Ohio
Memphis Hanger Co., 14th & P. & L. E. R. R., Monaca, Pa.
Menasha Wood Split Pulley Co., 674 Tayco St., Menasha, Wisc.
Mendez Corp., 2300 Payne Ave., Cleveland 14, Ohio
Merchants Chemical Co., Inc., 60 E. 42nd St., New York 17, N. Y.
Mercury Cleaning Systems, Inc., 546 W. Washington Blvd., Chicago 6, Ill.
Meron Products Co., 65 Essex St., Jersey City 2, N. J.
Metalfite Mfg. Corp., 536 Broad St., Glen Rock, N. Y.
Metropolitan Body Co., 151 Kosuth St., Bridgeport 3, Conn.
Mexco Refractories Co., Love & Cole Sts., Mexico, Mo.
Meyercoad Co., 5323 W. Lake St., Chicago 44, Ill.
Midland Color & Chemical Co., 13 Greene St., Jersey City 2, N. J.
Michael Faust & Varnish Co., 3828 E. 91st St., Cleveland 5, Ohio
Mid-West Machine & Tool Co., 4325 W. Lincoln Ave., Milwaukee, Wisc.
Miller Co., 99 Center St., Meriden, Conn.
Miller, A. O. Co., 320 Nordina St., Redlands, Cal.
Miller Laundry Machinery Co., 8341 Lyndon Ave., Detroit 81, Mich.
Milwaukee Leather Belting Co., 1114 N. Water St., Milwaukee 2, Wisc.
Milwaukee Printed String Co., 2804 W. Fond du Lac Ave., Milwaukee 8, Wisc.
Mims Safety Appliances Co., 201 N. Braddock Ave., Pittsburgh 8, Pa.

Minneapolis-Moneywell Regulator Co., Industrial Div., Wayne & Roberts Aves., Philadelphia 44, Pa.

Minnesota Chemical Co., 2285 Hampden Ave., St. Paul 4, Minn.

Mitchell, J. C. Co., 4916-28 W. Jefferson Blvd., Los Angeles 18, Cal.

Modine Mfg. Co., 1557 De Koven Ave., Racine, Wis.

Mosier Instrument Co., Inc., 132-08 89th Ave., Richmond Hill 18, N. Y.

Mohawk Rubber Co., 1235 Second Ave., Akron 9, Ohio

McGee Hedges, Colorado Springs, Colo.

Monite Co., Inc., 4903 Delmar Blvd., St. Louis 8, Mo.

Monroe Co., Inc., 10703 Quebec Ave., Cleveland 8, Ohio

Montpelier Mfg. Co., Montpelier, Ohio

Moore Business Forms, Inc., 900 Buffalo Ave., Niagara Falls 1, N. Y.

Moore Co., 800 S. Missouri Ave., Marceline, Mo.

Moore's Time Saving Equipment Co., 1934 S. Sterling Ave., Elkhart, Ind.

Morehead Mfg. Co., 2455 W. Warren Ave., Detroit 8, Mich.

Morhart Corp., 700 E. Kalamazoo St., Lansing 12, Mich.

Morse Display Cases, 627 11th St., Wilmette, Ill.

Morse Mfg. Co., Inc., 122 Dickerson St., Syracuse 2, N. Y.

Mortemuth Chemical Laboratories, 3178 N. Fraternity St., Milwaukee 12, Wis.

Moser Bag & Paper Co., 3049 E. 55th St., Cleveland 27, Ohio

Multi-Clean Products, Inc., 2277 Ford Parkway, St. Paul 1, Minn.

Mund Boilers, Inc., 1600 N. Indiana St., Los Angeles 33, Cal.

Murphy Sales Co., P. O. Box 153, St. Simons Island, Ga.

Murray, D. J. Mfg. Co., 1002-24 Third St., Wausau, Wis.

Mutual Paper Box Co., Inc., 510 W. 27th St., New York 1, N. Y.

Myer, Henry, Thread Mfg. Co., 319 W. Van Buren St., Chicago 7, Ill.

N

Nagel Coat Hanger Co., 1200-18 Oliver St., Houston 7, Texas

Namco Chemical Corp., 4765 Bellevue Ave., Detroit 7, Mich.

Nashua Gummed & Coated Paper Co., Surehold Div., Franklin St., Nashua, N. H.

Nashua Textile Co., 248 Fifth Ave., New York 1, N. Y.

National Airoil Burner Co., Inc., 1284 E. Sedgley Ave., Philadelphia 34, Pa.

National Aluminate Corp., 6216 W. 66th St., Chicago 38, Ill.

National Asiline Div., Allied Chemical & Dye Corp., 40 Rector St., New York 6, N. Y.

National Boiler Protector Co., 928 Reibold Bldg., Dayton 2, Ohio

National Bundle Tye Co., Dept. 10, Bluffsfield, Mich.

National Cash Register Co., Main & K Sts., Dayton 9, Ohio

National Chemical Sales Co., Laboratory, Inc., 414-16-18 Sixth St., N. W., Atlanta, Ga.

National Cleaners Chemical Mfg. Co., 2807-11 W. Lake St., Chicago 12, Ill.

National Combustion Co., 101-06 43rd Ave., Corona 68, N. Y.

National Dryer Mfg. Co., 2500 60th St., Kenosha, Wis.

National Dye House, 5812 W. Washington Blvd., Culver City 4, Cal.

National Dye Works, Inc., 3513 Washington Blvd., Baltimore 22, Md.

National Indemnity Exchange, 3820 Washington Blvd., St. Louis 8, Mo.

National Institute of Cleaning & Dyeing, Silver Spring, Md.

National Life Insurance Co., Montpelier, Vt.

National Marking Machine Co., 4026 Cherry St., Cincinnati 23, Ohio

National Milling & Chemical Co., 4601 Nixon St., Philadelphia 27, Pa.

National Paper Band Co., P. O. Drawer 126, Denver, Colo.

National Paper & Type Co., 120 Wall St., New York 5, N. Y.

National Repair Services, 615 E. Main St., Richmond 19, Va.

National Starch Products, Inc., 270 Madison Ave., New York 17, N. Y.

National Steam Pump Co., 701 W. Johnson, Upper Sandusky, Ohio

National Tag & Label Corp., 19 Bridge St., Watertown 72, Mass.

National Textile Chemical Co., 1984 E. 83rd St., Cleveland, Ohio

National Textile Conservation Div., Research Laboratories, Sherron Acres, Durham, N. C.

National Truck Leasing System, 23 E. Jackson Blvd., Chicago 4, Ill.

Neelhi Sewing Machine Sales Corp., 164 W. 25th St., New York 1, N. Y.

Neon Sign Co., Inc., House of Plastics Div., N. 14th at Taylor, Herrin, Ill.

Neva-Clog Products, Inc., 508 Logan St., Bridgeport 1, Conn.

Nevinger Mfg. Co., Inc., Harris Ave., Greenville, Ill.

New Departure, Div. General Motors Corp., Bristol, Conn.

Newhouse Co., 1247 E. Colorado Blvd., Glendale, Cal.

New York Belting & Packing Co., 1 Market St., Passaic, N. J.

New York High Grade Button Works, 3569 Broadway, New York 31, N. Y.

New York Net Co., 2555 Webster Ave., New York 58, N. Y.

New York Twine Corp., 43 W. 36th St., New York 18, N. Y.

Nice Ball Bearing Co., 30th St. & Hunting Park Ave., Philadelphia 40, Pa.

Nichols, John P. Jr., Co., 12 Oregon St., Wilkes-Barre 1, Pa.

Nicholson, Wm. J., Laboratories, 2971 W. Davidson, Detroit, Mich.

Nissen, John P. Jr., Co., Glenview, Pa.

No-Dam Co., 618 N. Wells St., Chicago 10, Ill.

Nopco Chemical Co., Inc., First & Essex Sts., Harrison, N. J.

Norman Control Co., P. O. Box 372, Cary, Ill.

North American Electric Lamp Co., 1090 Tyler St., St. Louis 6, Mo.

North American Mfg. Co., 4533 E. 71st St., Cleveland, Ohio

North Coast Chemical & Soap Works, 6307-21 17th Ave., S., Seattle 8, Wash.

Northern Equipment Div., Continental Foundry & Machine Co., 1945 Grove Dr., Erie, Pa.

Norton & Williams, Inc., 608 North Ave., Westfield, N. J.

Nu-Life Mfg. Co., P. O. Box 2942, St. Louis 17, Mo.

Nuodex Products Co., Inc., 830 Magnolia Ave., Elizabeth, N. J.

Nu-Pro Mfg. Co., 2918 Washington Ave., St. Louis 3, Mo.

Nutting Truck & Caster Co., 1125 W. Division St., Fairbault, Minn.

Nyeon Products Co., 110 W. 29th St., New York 1, N. Y.

O

Oakite Products, Inc., 22B Thames St., New York 6, N. Y.

O'Brien Steam Specialty Co., Inc., 205 Harrison St., Syracuse 2, N. Y.

Ohio Centrifugals Co., 342 S. Monument Ave., Hamilton, Ohio

Ohio Injector Co., 175 Laundry St., Wadsworth, Ohio

Ohio Mechanics Institute, Central Parkway & Walnut St., Cincinnati 10, Ohio

Olmer Register Co., 740 Bolander Ave., Dayton, Ohio

Oil-Rite Corp., 2318 Waldo Blvd., Manitowoc, Wis.

Oil States Petroleum Co., Inc., 233 Broadway, New York, N. Y.

OlefinMark Corp., 124 White St., New York 13, N. Y.

Olson, I. B. E. Corp., 1740 Broadway, New York 19, N. Y.

Olson Filtration Engineers, Inc., 1624 N. Kilbourn Ave., Chicago 39, Ill.

Omaha Dye Works, 24th & Poppleton, Omaha, Neb.

Ontario Iron Works, 32 Park St., Pulaski, N. Y.

Orban, Kurt, Co., Inc., 205 E. 42nd St., New York 17, N. Y.

Orr Felt & Blanket Co., Piqua, Ohio

Orr & Sembover, Inc., P. O. Box 1198, Reading, Pa.

Osborn Bros., 223 W. Jackson Blvd., Chicago 6, Ill.

Oshkosh Filter & Soltener Co., 51 Ceape St., Oshkosh, Wis.

Outside Venetian Blind Co., 2625 Elm St., Dallas 1, Texas

Owens Corning Fiberglass Corp., 16 E. 56th St., New York 23, N. Y.

P

Pasche Airbrush Co., 1909 W. Diversey Parkway, Chicago 14, Ill.

Pabel Sales Co., 221 N. LaSalle St., Chicago 1, Ill.

Pacific Car & Foundry Co., Renton, Wash.

Pacific Coat Hanger Mfg. Co., 6710 Avalon Blvd., Los Angeles 3, Cal.

Package Chemical Co., Inc., 218 W. First St., Boston 27, Mass.

Package Masters, 2525 S. Wabash Ave., Chicago 16, Ill.

Packless Metal Hose Inc., 31 Winthrop Ave., New Rochelle, N. Y.

Pacraft Corp., 480 W. Front St., Red Bank, N. J.

Paisley Products, Inc., 1770 Canalport Ave., Chicago 16, Ill.

Pak-Rite Flexible Packaging Co., 135 W. 20th St., New York 11, N. Y.

Pantex Mfg. Corp., 521 Roosevelt Ave., Pawtucket, R. I.

Paper Chemicals, Inc., 510 W. 27th St., New York 1, N. Y.

Para-Lux Products Co., 4158 W. Schubert Ave., Chicago 39, Ill.

Paragon-Fidler, Inc., 307 Canal St., New York 13, N. Y.

Parisian Novelty Co., 3510 S. Western Ave., Chicago 9, Ill.

Parker, S. E., Boiler Mfg. Co., Inc., 2035 E. 37th St., Los Angeles 11, Cal.

Patek & Co., 1900 16th St., San Francisco 1, Cal.

Patterson-Kelley Co., Inc., 104 Warren St., East Stroudsburg, Pa.

Patterson Laboratories, Inc., 11930 Pleasant Ave., Detroit 25, Mich.

Paulin Products Co., 4444 Lawndale Ave., Lyons, Ill.

Payson Mfg. Co., 2916 W. Jackson Blvd., Chicago 12, Ill.

Peabody Engineering Corp., 580 Fifth Ave., New York 1, N. Y.

Peetess Pump Div., Food Machinery & Chemical Corp., 301 West Ave. 26, Los Angeles 31, Cal.

Pellerin Milnor Corp., 8000 Edinburgh St., New Orleans 18, La.

Penick & Ford, Ltd., Inc., 420 Lexington Ave., New York 17, N. Y.

Pennington Co., Riverview Ave., Gillette, N. J.

Penn Novelty Co., 228-30 N. 15th St., Philadelphia 2, Pa.

Pennsylvania Rubber Co., Penn-Craft Park, Jeannette, Pa.

Pennsylvania Salt Mfg. Co., 1000 Widener Bldg., Philadelphia 7, Pa.

Perelmutter, M., & Co., 4423-25 Broadway, Chicago 40, Ill.

Perfection Marking Machine Co., 441 Detroit St., Denver 6, Colo.

Perfection Products Co. & Identification, Inc., 550 W. Harrison St., Chicago 7, Ill.

Perlex Corp., 500 W. Oklahoma Ave., Milwaukee 11, Wis.

Permafilter Corp., 450 Seventh Ave., New York 1, N. Y.

Perma Mfg. Co., Inc., 189 North Ave., N. E., Atlanta, Ga.

Perma Products Co., P. O. Box 25, Linwood Station, Detroit 6, Mich.

Perma-Aseptic Corp., 432 Waverly Ave., Mamaroneck, N. Y.

Per-Mo Products Co., 1715 E. 36th St., Kansas City 2, Mo.

Permutit Co., 330 W. 42nd St., New York 18, N. Y.

Perry, E. J., & Co., 1329 Rockdale Ave., New York 18, N. Y.

Pest Control Equipment Co., 47 W. 43rd St., New York 18, N. Y.

Petroleum Heat & Power Co., Stamford, Conn.

Pfaff Sewing Machine Sales Co., 820 Greenwich St., New York 14, N. Y.

Phenix Supply Co., 361 Central Ave., S. W., Atlanta 3, Ga.

Philadelphia Belting Co., Sixth & Spring Garden Sts., Philadelphia 23, Pa.

Philadelphia Quartz Co., 1160 Public Ledger Bldg., Sixth & Chestnut Sts., Philadelphia 6, Pa.

Philco Corp., Storage Battery Div., 467 Calhoun St., Trenton 7, N. J.

Phoenix Oil Co., 9505 Cassius Ave., Cleveland 3, Ohio

Phoenix Products Co., 4715 N. 27th St., Milwaukee 9, Wis.

Photawitch, Inc., 77 Broadway, Cambridge 42, Mass.

Pick Mfg. Co., 255 S. Main St., West Bend, Wis.

Pioneer Development Co., 1059 Ingraham St., Los Angeles 14, Cal.

Pittsburgh Hanger Co., 14th & P. & L. E. R. R., Monaca, Pa.

Pittsburgh Plate Glass Co., Paint Div., 632 Duquesne Way, Pittsburgh 22, Pa.

Pittsburgh Tag Co., 1112-20 Galveston Ave., Pittsburgh 33, Pa.

Pittsburgh Waterproof Co., 2537 Penn Ave., Pittsburgh 22, Pa.

Plumb Co., 1800 Kingsbury St., Chicago 14, Ill.

Pneumatic Engineering & Sales, 1010 Des Moines Bldg., Des Moines, Iowa

Poseck, M. A., 1234 Central Ave., N.E., Minneapolis 15, Minn.

Poland Laundry Machinery Co., 47 Kemble St., Boston 19, Mass.

Popkins Fixture Co., 3722 Forest Park Blvd., St. Louis 8, Mo.

Porto-Fab Co., Inc., 9215 Weiss St., Dallas 9, Texas

Powers Regulator Co., 2810 Greenview Ave., Chicago 14, Ill.

Preterred Utilities Mfg. Corp., 1860 Broadway, New York 23, N. Y.

Pre-Marked Strip Tag Co., 3232 India St., San Diego 1, Cal.

Pres-Grip Corp., 3108 Main St., Buffalo 14, N. Y.
Procter & Gamble Distributing Co., Gwynne Bldg., P. O. Box 509, Cincinnati 2, Ohio
Procter & Schwartz, Inc., Seventh St. & Tabor Rd., Philadelphia 20, Pa.
Progressive Textile Mfg. Co., 3252 River Ave., Camden 5, N. J.
Proportioners, Inc., P. O. Box 1442, Providence, R. I.
Prosperity Co., Inc., 2131-2171 Erie Blvd., E., Syracuse 1, N. Y.
Pyne, William, Inc., Dayville, Conn.
Pulclean Towel Cabinet System, 11 Broadway, New York 4, N. Y.
Pure Oil Co., 35 E. Wacker Dr., Chicago 1, Ill.
Furkert Mfg. Co., 325 E. Third St., Joplin, Mo.
Pyrene Mfg. Co., 560 Belmont Ave., Newark 8, N. J.
Pyrometer Instrument Co., Inc., Bergenfield 33, N. J.

Q

Quality Products Co., 5760 W. Grand Ave., Chicago 39, Ill.
Quigley Co., Inc., 527 Fifth Ave., New York 17, N. Y.

R

Radiant Drying Co., 1680 Vine St., Los Angeles 28, Cal.
Radiator Specialty Co., 1700-1900 Dowd Rd., Charlotte 1, N. C.
Rainbow Dye Works, 109 S. 16th St., Louisville 2, Ky.
Ramelli, Rudolph, Inc., 1700 Foydras, New Orleans 6, La.
Ramette Co., 3563 W. 18th St., Chicago 8, Ill.
Randolph Laboratories, Inc., 8 E. Kinzie St., Chicago 13, Ill.
Rapid-Standard Co., 535 Bono Ave., N.W., Grand Rapids 2, Mich.
Rassenfoss Bag Co., Inc., 1904 Grove St., Glenview, Ill.
Rathbun Co., 2507 Chartres St., Houston 4, Texas
Raybestos-Manhattan, Inc., 61 Willett St., Passaic, N. J.
Raychem Products Co., 20 E. 19th St., Paterson 4, N. J.
Ray Oil Burner Co., 1301 San Jose Ave., San Francisco 12, Cal.
Reading, Pratt & Cady, Div. American Chain & Cable Co., Inc., Tulpehocken St. & Lebanon Valley R. R., Reading, Pa.
Reed Mfg. Co., 1425 W. Eighth St., Erie, Pa.
Reed-Stahlin, Inc., 504 62nd St., Brooklyn 20, N. Y.
Rees-Davis Drugs, Inc., Meriden, Conn.
Reeves Bros., Inc., 54 Worth St., New York 13, N. Y.
Reinhart Corp., Omaha, Neb.
Reintjes, George P., 2515-17 Jefferson St., Kansas City 10, Mo.
Reliable Fur Storage Equipment Co., Div. Reliable Machine Works, Inc., 238 Eagle St., Brooklyn 22, N. Y.
Reliable Steam Pressing Machine Service, Inc., 175 Bergen St., Newark 3, N. J.
Reliance Electric & Engineering Co., 1058 Ivanhoe Rd., Cleveland 10, Ohio
Rema Corp., Box 86, Norwalk, Conn.
Remington Rand Co., 315 Fourth Ave., New York, N. Y.
Renard's, 741 Madison Ave., New York 21, N. Y.
Reo Motors, Inc., 1314 S. Washington Ave., Lansing 20, Mich.
Repel-O-Products Div., North American Merchandising Co., Transportation Bldg., Detroit 36, Mich.
Republic Flow Meters Co., 2240 W. Diversey Parkway, Chicago 47, Ill.
Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio
Research Laboratories Corp., P. O. Box 388, Durham, N. C.
Research Products Corp., 1011 E. Washington Ave., Madison 3, Wisc.
Resilio Co., 2328 W. Nelson St., Chicago 18, Ill.
Resisto Laboratories, 1286 Donald Ave., Lakewood, Ohio
Resistoflex Corp., 39 Flansoon Rd., Belleville 9, N. J.
Revere Copper & Brass, Inc., 230 Park Ave., New York 17, N. Y.
Reverse Electric Mfg. Co., 6009 N. Broadway, Chicago 40, Ill.
Revoltite Div. (Atlas Powder Co.), Ludlow St., Stamford, Conn.
Rez-Vac Products Co., 53 Clark St., Hamburg, N. Y.

Rhodes, Preston T., 520-22 N. 61st St., Philadelphia 14, Pa.
Ridson Mfg. Co., 14 Ridson St., Naugatuck, Conn.
Ridson Chemical Co., Inc., 871-947 River Rd., North Tonawanda, N. Y.
Riverside Mfg. Co., 4919-27 Connecticut St., St. Louis 9, Mo.
Rohrer-Mahler Co., Inc., 1035 W. Lake, Chicago, Ill.
Roberts Numbering Machine Co., 705 Jamaica Ave., Brooklyn 8, N. Y.
Robson, G. S. & Co., 126 Chouteau St., St. Louis, Mo.
Robinson School of Weaving, 210½ W. Main, Lebanon, Ind.
Robert Laundry Machinery Sales, Wolf Ave., Chambersburg, Pa.
Rochester Can Co., 114 Greenleaf St., Rochester 9, N. Y.
Rockwell, W. S., Co., 200 Eliot St., Fairfield, Conn.
Rodin Machinery Co., Div. Rodin Bros., 930 E. 43rd St., Chicago 15, Ill.
Roller Bearing Co. of America, Box 480, Trenton 3, N. J.
Rome Soap Mfg. Co., Sixth St., Rome, N. Y.
Ronaflex Tubing Co., Inc., Packard Bldg., Philadelphia 2, Pa.
Rose & Co., 11 Ionias, S. W., Grand Rapids 2, Mich.
Roth-Connorsville Blower Corp., 900 W. Mount St., Connorsville, Ind.
Rosenthal Mfg. Co., 5035 N. Kedzie Ave., Chicago 25, Ill.
Rothschild Paper Co., 200 Lynch St., St. Louis 18, Mo.
Roth, Roy E., Co., 2430 Fourth Ave., Rock Island, Ill.
Rothleder, Mammie, Co., 50 W. 29th St., New York 1, N. Y.
Rubber City Mfg. Co., 714 N. Main St., Akron 10, Ohio
Rubensard Co., 500 Fifth Ave., New York 18, N. Y.
Rubinfeld, M., Inc., 154-156 W. 27th St., New York 1, N. Y.
Ruggles, Klingemann Mfg. Co., Foster Court, Salem, Mass.
Ruland & Oas Mfg. Co., 245 Maple Ave., North Girard, Pa.
Rumford Chemical Works, 21 Newman Ave., Rumford 16, R. I.
Russell Mfg. Co., Middletown, Conn.

S

Sabin Machine Co., 6536 Carnegie Ave., Cleveland 3, Ohio
St. Louis Sticker Co., 1906 Pine St., St. Louis 3, Mo.
Salisbury Mfg. Co., Box 1523, Providence, R. I.
Salomon, L. A. & Bros., 216 Pearl St., New York 4, N. Y.
Sani-Top Co., Steppay Depot, Conn.
Sarco Co., Inc., Empire State Bldg., New York, N. Y.
Schaub, Fred H., Engineering Co., Inc., 2110 S. Marshall Blvd., Chicago 23, Ill.
Schirmer-Dornbier Pump Co., 1719 E. 39th St., Cleveland 14, Ohio
Schorr Paper Co., 55 W. 45th St., New York 19, N. Y.
Schorrich & Co., Inc., 120 Bruckner Blvd., New York 54, N. Y.
Schramm, Inc., West Chester, Pa.
Schutte & Koerting Co., Cornwells Heights, Bucks County, Pa.
Schwartz, B. W., Co., Box 205, Washington St., Two Rivers, Wisc.
Schwitzer-Cummins Co., 1145 E. 22nd St., Indianapolis 7, Ind.
Seamless Company, Inc., 41-23 24th St., Long Island City 1, N. Y.
Sec-O-Matic Corp., Div. International Projector Corp., 55 LaFrance Ave., Bloomfield, N. J.
Security Fur Seal Co., Inc., 144 W. 27th St., New York 1, N. Y.
Sellen Engineering Co., 4876 N. Clark St., Chicago 40, Ill.
Seneb, Dyers, Inc., 1227 Maple St., Rochester 11, N. Y.
Sergeant, E. M., Pulp & Chemical Co., Inc., 7 Dey St., New York 1, N. Y.
Service Recorder Co., 1375 Euclid Ave., Cleveland 15, Ohio
Shane Uniform Co., Inc., 2013 W. Maryland, Evanston 7, Ind.
Shedlov-Helms Mfg. Co., 15-B Wilder St., Minneapolis 1, Minn.
Shell Oil Co., Inc., 50 W. 50th St., New York 20, N. Y.
Shelton Engineering & Mfg. Co., 277 E. 156th St., Cleveland 10, Ohio
Shuler Conveyors, Inc., 49 Hutchison Place, Lynbrook, N. Y.
Sibur Matheson Div., P. O. Box 956, Colorado Springs 3, Colo.
Siebring Mfg. Co., 100 Owen St., George, Iowa
Signal Chemical Mfg. Co., 2650 Wood Hill Rd., Cleveland 4, Ohio
Silberman Mfg. Co., P. O. 512, Chicago 90, Ill.

Simco Co., 918 W. Master St., Philadelphia 22, Pa.
Simmons Machine Co., 5118 Lincoln Ave., Chicago 25, Ill.
Simplex Oil Heating Corp., 7901 Oxford Ave., Philadelphia 11, Pa.
Simplex Time Recorder Co., 24 S. Lincoln St., Gardner, Mass.
Singer Sewing Machine Co., 149 Broadway, New York 6, N. Y.
Sirota, Bernard, Co., 620 Smith St., Brooklyn 31, N. Y.
Skelly Oil Co., 47th St. & Penn Ave. (605 W. 47), Kansas City, Mo.
Skrandel Co., 6433 S. Rockwell St., Chicago 29, Ill.
Slater-Robbins Co., Inc., 25-44 Borden Ave., Long Island City, N. Y.
Smith, Drum & Co., Allegheny Ave. below Fifth, Philadelphia, Pa.
Smith, Frank W., Co., 503 Front St., Orange, Texas
Smith, George, Mfg. Co., 1323 W. Carroll Ave., Chicago 7, Ill.
Smith, Gilman B., Co., Inc., 915 Broadway, New York 10, N. Y.
Smith, Laurence C., 1526 Valley Dr., Syracuse, N. Y.
Smith, R. B., Co., 1609 S. Nevada Ave., Colorado Springs, Colo.
Smith, S. S., Inc., Box 272, Red Bank, N. J.
Socony-Vacuum Oil Co., Inc., 26 Broadway, New York 4, N. Y.
Solvay Process Div., Allied Chemical & Dye Corp., 61 Broadway, New York 6, N. Y.
Sonneborn, L. Sons, Inc., 86 Lexington Ave., New York 16, N. Y.
Southeastern Textile Co., 222 E. Solomon St., Griffin, Ga.
Southern Mills, Inc., 585 Wells St., S. W., Atlanta, Ga.
Sparks Pad Co., 7712 Denton Dr., Dallas 9, Texas
Spears Box Co., Inc., 270 11th Ave., New York 16, N. Y.
Spicare Co., 2235 S. Ford Ave., Chicago 16, Ill.
Specialty Devices Co., 805 E. 26th St., Norfolk 4, Va.
Speed Products Co., Inc., 37-15 Northern Boulevard, Long Island City 1, N. Y.
Speedy Washer Mfg. Co., 5300 N.W. Second Ave., Miami, Fla.
Spencer Turbine Co., 486 New Park Ave., Hartford, Conn.
Spix Products Co., 119 Dahlem St., Pittsburgh 6, Pa.
Spiegelwood Parker & Co., 313 Techwood Dr., N. W., Atlanta, Ga.
Squires, C. E., Co., 18502 Syracuse Ave., Cleveland 10, Ohio
Stadham Co., Inc., 1825-31 N. 20th St., Philadelphia 21, Pa.
Stadler Textile Weavers, 312 E. Wisconsin Ave., Milwaukee, Wisc.
Stallard Mfg. Co., Inc., 145 59th St., Brooklyn 20, N. Y.
Stamper Mfg. Co., 2032 E. Seventh St., Los Angeles 21, Cal.
Staley, A. E., Mfg. Co., 220 Eldorado, Decatur 60, Ill.
Standard Chemical Co., 50 Spruce St., Stamford, Conn.
Stampagraph Co., Inc., 79 Alexander Ave., Bronx 54, N. Y.
Stam-Patch Magic Mordant, Elbow Lake, Minn.
Standard Chemical Works Co., 538 E. Town St., Columbus 15, Ohio
Standard Fire Insurance Co., 151 Farmington Ave., Hartford, Conn.
Standard Cement Co., 2283 Fulton St., Toledo 10, Ohio
Standard Laundry & Cleaning Machinery Co., 6900 Maple Ave., Dallas 2, Texas
Standard Oil Co., 910 Michigan Ave., Chicago 80, Ill.
Standard Register Co., 3005 Campbell St., Dayton 1, Ohio
Standard Soap Co. of Camden, 205 S. Second St., Camden, N. J.
Stanley, John T., Inc., 626-66 W. 30th St., New York, N. Y.
Star-Nu Corp., 701 S. Wells St., Chicago 7, Ill.
Star Soap & Chemical Co., 139 Main St., Cambridge, Mass.
Star Service Hanger Div., L. A. Young Spring & Wire Corp., 9290 Russell St., Detroit 11, Mich.
Stauffer Chemical Co., 420 Lexington Ave., New York 17, N. Y.
Steamaster Automatic Boiler Co., 5819 Compton Ave., Los Angeles 11, Cal.
Steamator Co., Inc., 110 W. 30th St., New York 1, N. Y.
Steam Engineering & Sales Co., 1818 W. 47th St., Chicago, Ill.
Stearns, George, Chemical & Mfg. Co., 119 E. Main St., Madison, Wisc.
Stebbins Mfg. & Supply Co., 1735 Blake St., Denver 2, Colo.
Steele Mfg. Co., 3418 Gratiot, St. Louis 8, Mo.
Steele Canvas Basket Co., Inc., 199 Concord Turnpike, Box 84, Cambridge 40, Mass.
Steele, J. W., & Co., 12th Ave. & Howell, North Kansas City 16, Mo.
Steel Products Engineering Co., 1205 Columbus St., Springfield, Ohio
Steffen Canvas Products, 315 S. Berch St., Eaton, Ohio
Steigler, George, Co., 8 Forest Ave., Cincinnati, Ohio

Stein, Lawrence M. Co., 815-25 W. Van Buren St., Chicago 7, Ill.
 Steiner Sales Co., 740 Rush St., Chicago 11, Ill.
 Steinman Paper Co., 1302 N. Halsted Ave., Chicago 22, Ill.
 Stephens-Adams Mig. Co., Ridgeway Ave., Aurora, Ill.
 Sterling, Inc., 3738 N. Holton St., Milwaukee 13, Wis.
 Sterling Engineering & Mig. Corp. (Templeton Mig. Co.), Reservation Rd., Hyde Park 36, Mass.
 Sterling Supply Corp., 1 Porter St., Philadelphia 48, Pa.
 Stern Chemicals, Inc., 1450 Broadway, New York 18, N. Y.
 Stevenson Co., Stevenson, Conn.
 Stevenson, Jordan & Harrison, Inc., 205 W. Wacker Dr., Chicago 6, Ill.
 Stewart-Warner Corp.-Alenite Corp., 1826 Divercy Parkway, Chicago 14, Ill.
 Sticht, Herman Co., Inc., 27 Park Pl., New York 7, N. Y.
 Still-Reed, Inc. and/or Wm. A. Reed & Co., Inc., 8432 44th Pl., Lyons, Ill.
 Stomac Engineering Co., Inc., 2000 W. 25th, Cleveland 13, Ohio
 Story Mig. Co., 205 Lafayette Ave., Bellevue, Ky.
 Stout, David, & Sons, 7016 Manchester Blvd., St. Louis 17, Mo.
 Stover Water Softener Co., Stover Bldg., St. Charles, Ill.
 Street, R. R. & Co., Inc., 561 W. Monroe St., Chicago 6, Ill.
 Striker's Laundry Machinery, Inc., 221 N. Westmoreland Ave., Los Angeles 49, Cal.
 Stromberg Time Corp., 109 Lafayette St., New York 13, N. Y.
 Strong, Carlisle & Hammond Co., 1302 W. Third St., Cleveland 13, Ohio
 Stry-Lenkoff & Co., 815 E. Market St., Louisville 6, Ky.
 Studebaker Corp., South Bend, Ind.
 Subow, Inc., Farmington Plaza, Farmstead, N. Y.
 Surecure, Inc., 50 Station Road, Hempstead 1, N. Y.
 Sun Fluorescent Electric Co., 1655 Bedford Ave., Brooklyn 25, N. Y.
 Superior Construction Industries, Inc., 1475 Broadway, New York 18, N. Y.
 Superior Products Co., 148 Pearl St., Somerville 45, Mass.
 Superior Rug Machinery Co., 2738 N. Sheffield Ave., Chicago 14, Ill.
 Super Laundry Machinery Co., Div. St. Joe Machines, Inc., State & Water Sts., St. Joseph, Mich.
 Sure-Hold Div., Nashua Gummed & Coated Paper Co., Franklin St., Nashua, N. H.
 Sureloc Paper Clip Co., 86 Kenyon Ave., Wakefield, R. I.
 Sutherland Paper Co., 243 E. Paterson St., Kalamazoo 13-D, Mich.
 Swift & Co., Union Stock Yards, Chicago 9, Ill.
 Sylvania Div., American Viscose Corp., 122 E. 42nd St., New York 17, N. Y.
 Sylvania Electric Products, Inc., 500 Fifth Ave., New York N. Y.

T

Taco Heaters, Inc., 137 South St., Providence 3, R. I.
 Tad Chemical Co., Div. Acme Industrial Compounds Corp., 625 S. Goodman, Rochester 7, N. Y.
 Tagit Co., 1212 11th St., Rockford, Ill.
 Takamine Laboratory, Inc., 193 Arlington Ave., Clifton, N. J.
 Take-Care Mig. & Sales Co., 2225 E. Ninth St., Wichita, Kans.
 Talley Laundry Machinery Co., Mills St., Greensboro, N. C.
 Talon, Inc., 626 Arch St., Meadville, Pa.
 Tarbous Co., 4300 Euclid Ave., Cleveland 3, Ohio
 Taub, Al. Dye Works, Grand Prairie, Dallas County, Texas
 Taylor, W. A. & Co., 7300 York Rd., Baltimore 4, Md.
 Telex Engineering Corp., 1 Washington Ave., Providence 1, R. I.
 Telex, Inc., 248 W. Wingohocking St., Philadelphia 40, Pa.
 Temple, A. B. Co., 308 W. Burlington, La Grange, Ill.
 Templeton Bros., Inc., 699 Main St., Walpole, Mass.
 Testing Machines, Inc., 427 W. 42nd St., New York N. Y.
 Texas Co., 135 E. 42nd St., New York N. Y.
 Texas Soap Mig. Corp., 4903 Calhoun Rd., Houston 4, Texas
 Tex Tag Control Systems, 522 W. Peachtree St., Atlanta, Ga.
 Textile Marking Machine Co., Inc., 246 Walton St., Syracuse 2, N. Y.
 Theobald Industries, P. O. Box 72, Harrison, N. J.
 Thomaston Mills, E. Main St., Thomaston, Ga.
 Thompson, H. C., Clock Co., 38 Federal St., Bristol, Conn.
 Thompson-Hayward Chemical Co., 2915 Southwest Blvd., Kansas City 8, Mo.

Thomson Chemical Co., 619 N. Jackson St., Lima, Ohio
 Thoro Products Co., 3240 Larimer St., Denver 5, Colo.
 Tho-Ro Products, Inc., 222 Fourth Ave., New York 3, N. Y.
 Thrifty Weavers, 310 N. St. Clair St., Toledo 4, Ohio
 Tie Co., Unadilla, N. Y.
 Tillery Container Co., 6000 Wilson Ave., Kansas City 3, Mo.
 Time Savers, Inc., 83-99 Walnut St., Montclair, N. J.
 Timken Roller Bearing Co., Canton 6, Ohio
 Tingue, Brown & Co., 1765 Carter Ave., New York 57, N. Y.
 Tinkles, Inc., 948 Frelinghuysen Ave., Newark 5, N. J.
 Titusville Iron Works Co., Div. Struther Wells Corp., 51 Drake St., Titusville, Pa.
 Todd Co., Inc., 1150 University Ave., Rochester 3, N. Y.
 Toledo Scale Co., 1076 Telegraph Rd., Toledo 12, Ohio
 Tompkins Label Service, Frankford Ave. at Allegheny Ave., Philadelphia 34, Pa.
 Tork Clock Co., Inc., 1 Grove St., Mt. Vernon, N. Y.
 Trachenberg, Sol G. & Son, 115 W. 30th St., New York 24, N. Y.
 Trane Co., Second & Cameron Sts., La Crosse, Wis.
 Travelers Insurance Co., Hartford, Conn.
 Treu, Harry Jay, Inc., 147 W. 35th St., New York 1, N. Y.
 Trico Chemical Div., Tri-State Equipment Co., 402 Sweetland Bldg., 1010 Euclid Ave., Cleveland 15, Ohio
 Trico Fuse Mfg. Co., 2948 N. Fifth St., Milwaukee 12, Wis.
 Triner Scale & Mfg. Co., 2714 W. 21st, Chicago, Ill.
 Trio Chemical Works, Inc., 341-49 Scholes St., Brooklyn 6, N. Y.
 Tri-Fak Machinery Service, Inc., Box 1228, Harlingen, Texas
 Triple "M" Inc., 12 Beacon St., Somerville 43, Mass.
 Tropical Paint & Oil Co., 1110-1300 W. 70th St., Cleveland 2, Ohio
 Troy Engine & Machine Co., 2400 Railroad Ave., Troy, Pa.
 Troy Laundry Machinery Div., American Machine & Metals, Inc., East Moline, Ill.
 Troy Sunshade Co., Plum & Grant Sts., Troy, Ohio
 Tru Color Dye Works, 205 Sheffield Ave., Brooklyn 7, N. Y.
 Tru-Shen Corp., 1230 Edward St., Richmond, Cal.
 "T" Ticker-Tag Corp., 512 N. Wienn St., High Point, N. C.
 Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Cal.
 Tyson Sales Co., Inc., 1212 Washington Ave., Houston, Texas

U

Uniform Sales Co., 527 W. Roosevelt Rd., Chicago 7, Ill.
 Union Iron Works, 15th & Cascade St., Erie, Pa.
 Union Oil Co. of California, Los Angeles, Cal.
 Unisegra Co., 2800 Lyndale Ave., S., Minneapolis 8, Minn.
 United Autographic Register Co., 5000 S. California Ave., Chicago, Ill.
 United Brass Works, 1589 Atlantic Ave., Brooklyn 3, N. Y.
 United Cotton Goods Co., Inc., 101 E. Broadway, Griffin, Ga.
 United Electric Motor Co., 178 Center St., New York 13, N. Y.
 United Fabrics Co., 223 W. Jackson Blvd., Chicago, Ill.
 United Laundry Shops, Inc., 16801 Euclid Ave., Cleveland 12, Ohio
 United Print Shop, 283 Seventh Ave., New York 1, N. Y.
 U. S. Blind Stitch Machine Co., 312 Seventh Ave., New York N. Y.
 U. S. Chemical Products Co., P. O. Box 212, Columbus, Ohio
 U. S. Gauge Div., American Machine & Metals, Inc., Clymer Ave., Sellersville, Pa.
 U. S. Hoffman Machinery Corp., 105 Fourth Ave., New York 3, N. Y.
 U. S. Machine Corp., Lebanon, Ind.
 U. S. Marking Tag Co., Inc., 718 Atlantic Ave., Brooklyn 17, N. Y.
 U. S. Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.
 U. S. Rubber Corp., Kaylor Div., 407 N. Main St., Mishawaka, Ind.
 U. S. Steel Co., 525 William Penn Pl., Pittsburgh 30, Pa.
 U. S. Stenware Co., 60 E. 42nd St., New York 17, N. Y.
 U. S. Tag & Ticket Co., 2217-21 Robb St., Baltimore, Md.
 U. S. Tissue Converting Co., 1848 W. Washington Blvd., Los Angeles 7, Cal.
 United Steel & Wire Co., 178 Fonda Ave., Battle Creek, Mich.

United Vacuum Appliance Corp., Connerville, Ind.
 Unit Wash Co., S. Washington St., Plainville, Conn.
 Universal Laundry Machinery Co., 3739 Page Blvd., St. Louis, Mo.
 Utility Truck Corp., 603 W. 23rd St., New York 11, N. Y.

V

V & W Equipment Co., 664 W. Peachtree, N. W., Atlanta 3, Ga.
 Valdura Div., American Marietta Co., 43 E. Ohio St., Chicago 11, Ill.
 Valco Chemical Co., 539 Third St., Detroit 26, Mich.
 Veeder-Root, Inc., 70 Sargeant, Hartford 2, Conn.
 Velan Engineering Co., 6585 Joanne Mance St., Montreal, Can.
 Velocity Steam Production Engineering, Inc., 38 S. Dearborn St., Chicago 3, Ill.
 Vie Cleaning Machine Co., 1313 Hawthorne Ave., Minneapolis 3, Minn.
 Victor Balata & Textile Belting Co., 53 Park Pl., New York 7, N. Y.
 Victor Chemical Works, 141 W. Jackson Blvd., Chicago 4, Ill.
 Victor Lubricator Sales Co., Mildred & North Aves., Antioch, Ill.
 Vicking Pump Co., Fourth & Newman Sts., Cedar Falls, Iowa
 Virginia-Carolina Laundry Supply Corp., 212 W. Seventh St., Richmond, Va.
 Virginia Greenstone Co., Inc., Box 897, S. Lynchburg, Va.
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SALES REPRESENTATIVES, AGENTS OR BROKERS WANTED to sell a full line of cellophane, glassine, etc., bags. Must have contacts with laundry supply jobbers or direct users. Advise all details regarding experience, territory covered, lines handled, etc., Mason Envelope Co., Inc., 536 Broadway, New York 12, N. Y. 9919-14

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AGGRESSIVE SALESMAN WANTED—Experience in supplies and equipment essential. Age 26 to 42. \$450 monthly drawing account. Leading Northeast distributor. Send resume to Box 9956, STARCHROOM LAUNDRY JOURNAL. -14

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Experienced laundryman available at once. Write: Sam Dillon, R. 3, Hillsdale, Michigan. 9929-5

Laundry Superintendent—35 years successful experience in producing quality work at minimum cost. Ambitious and reliable. Best of references. Prefer to locate in Southeast. ADDRESS: Box 9958, STARCHROOM LAUNDRY JOURNAL. -5

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IMPERIAL LAUNDRY MACHINERY COMPANY, 121 Greenpoint Ave., Brooklyn, New York, EV-9-6585, has available American Notrux 54" extractor with two extra baskets, purchased new 1945; Troy Streamline 8-roll ironer, new 1942; American 2-roll ironer, American 4-roll ironer, Ellis 54x120" 9-pocket stainless washer, American Cascade 42x24" washer, Troy 42x72" washer, American Tiltor shirt unit, Prosperity 4-girl unit and coat presser, Hoffman 42x90" tumbler, Huesch 34x39" tumblers, Hoffman and American 48" and 60" extractors for laundries or cleaners, Hoffman 140-F unit used two months, American 30x48" Petroleum unit with filter, still, etc., brand new, Prosperity synthetic cleaning unit, DDZ 60-pound synthetic unit, Columbia synthetic unit. 9069-4

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For Sale: 1—Used 44 x 84" **ROBOT** two pocket two door all stainless steel motor driven washer with automatic washman; 2—Used 48 x 96" Ellis motor driven all Monel washers; 1—Used 48 x 24" American Notrux all Monel motor driven washer; 1—Used 54" American Notrux extractor with two set containers. **CHICAGO USED & NEW LAUNDRY EQUIPMENT COMPANY**, 3128 WEST LAKE STREET, CHICAGO 12, ILLINOIS. NE 8-7763. 9628-4

42 x 84" SMITH DRUM, DOUBLE END DRIVE MONEL WASHERS, MOTOR DRIVEN, 2 COMPARTMENT 3 DOOR, CYLINDER DOORS CONVERTED TO OUR FINCH and FOOL PROOF TYPE. REBUILT EQUAL TO NEW. **CUMMINGS-LANDAU Laundry Machinery Co.**, 313 Ten Eyck Street, Brooklyn 6, N. Y. 9648-4

24 x 120" RETURN FEED SUPER IRONER, MOTOR DRIVEN. PRICED RIGHT. **CUMMINGS-LANDAU Laundry Machinery Co.**, 313 Ten Eyck St., Brooklyn 6, N. Y. 9725-4

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MACHINERY FOR SALE (Cont'd)

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1—TILTOR UNIT, complete, perfect, \$1,250; 1—MONEL WASHER, American 38" x 30"—75 lb. 3 phase motor, \$800; 1—CISSELL STOCKING FORM, rotating, \$125; 3—wet assembly racks, \$25 each; 1—NATIONAL MARKING MACHINE, power, 16 character, \$195; 1—blouse sizer, \$50. CUFID DIAPER SERVICE, INC., 129-09 Jamaica Ave., Richmond Hill 19, N. Y. 9912-4

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PROSPERITY POWER CIRCLE & GIRL SHIRT UNIT CONSISTING OF THE FOLLOWING PRESSES—COLLAR AND CUFF, BOSOM, YOKE AND TWO LAY SLEEVE PRESSES. CUMMINGS-LANDAU Laundry Machinery Co., 305 Ten Eyck St., Brooklyn 6, N. Y. 9942-4

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A new modern dry cleaning detergent for use in charged systems. Lets you clean in constantly filtered clear solvent because it's used with sweetener powders. Every load cleaned in uniform soap concentration. Less wet cleaning, fewer go-backs. Excellent for both sweet- and insoluble-stain removal in the washer.

PENSUDS

A new suds-building synthetic wet cleaning detergent for safe, effective cleaning in hard or soft water. Works equally well on the acid side, or on the alkaline side.

MIST

A new neutral lubricant for steam spotting. Lubricates spots and sets them up for fast steam removal.

For more information, see your Pennsalt representative or local distributor. Or, write direct to:
Laundry and Dry Cleaning Department

East: Pennsylvania Salt Manufacturing Company
2095 Widener Bldg., Philadelphia 7, Pa.

West: Pennsylvania Salt Manufacturing Company
of Washington
2168 Shattuck Ave., Berkeley 4, California



Pennsalt Chemicals

*Reg. U. S. Pat. Off.

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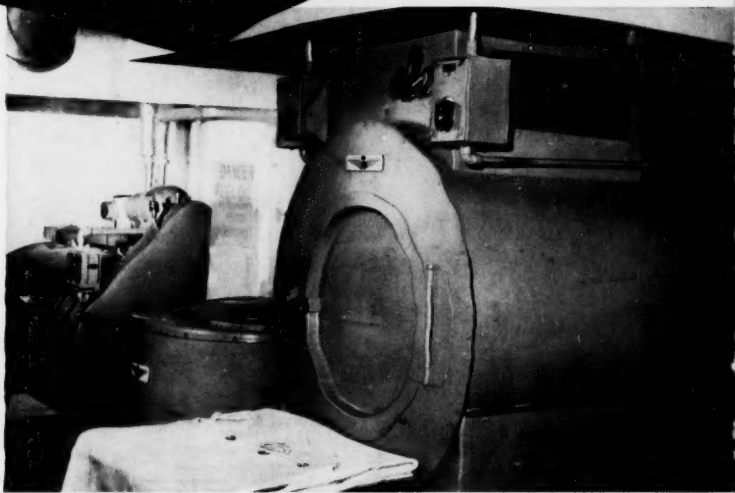
United States HOFFMAN LAUNDRY EQUIPMENT

A sea-faring laundry demands built-in dependability and stamina.

That's why selection of Hoffman equipment for the superliner "United States" is important to you. For

Hoffman washers, extractors and tumblers can be counted on to process work at low cost and minimum maintenance in your plant — just as they have been selected to do aboard the "United States," the "Constitution" and "Independence" in ocean-going service.

Hoffman is now building a new, advanced-design line of laundry equipment. Many of these models incorporate automatic features that save time, labor and money. Get acquainted with them — call in your Hoffman representative, or write, today.



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type of laundry
HOFFMAN offers
complete equipment service



Hoffman "JUNIOR" for economical production of small-lots and re-runs. Stainless steel construction. In 24- and 30-inch cylinder diameters.



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"GREYHOUND" Tumbler for fast, low temperature drying. 36 x 30 size.



Hoffman